

MANUFACTURERS' RECORD

A WEEKLY SOUTHERN INDUSTRIAL
RAILROAD AND FINANCIAL NEWSPAPER.

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 "RECENT IMPROVEMENTS IN ROCK DRILLS,"
 mailed free to any one who will cut out this advertisement and mail it to us with his name and address.

INGERSOLL-SERGEANT DRILL CO., 10 Park Place, New York.

MAIN OFFICE AND FACTORY. NERA AUTOMATIC FIRE SPRINKLER. WARREN, OHIO.

WROUGHT-IRON OPEN HEXAGONAL.



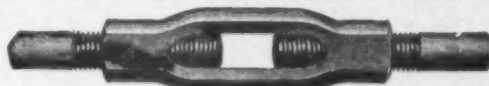
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Guaranteed Stronger than any Similar Article on the Market.

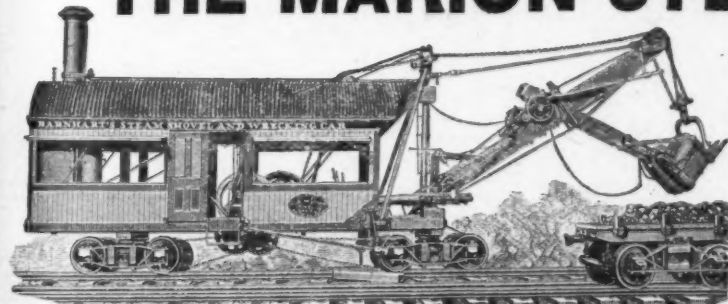
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 H. L. GREEN & CO., 46 Lake St., Chicago.

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The Only Buckle Made that has The Central Iron & Steel Co.
 a Perfect Wrench Hold. BRAZIL, IND.

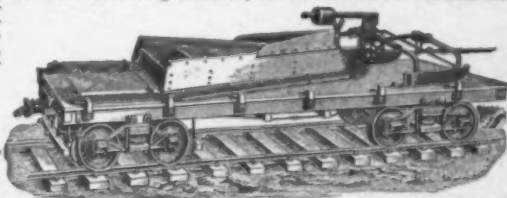


THE MARION STEAM SHOVEL CO. MANUFACTURERS OF

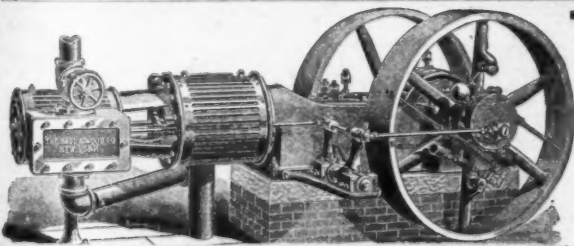


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THE BALL & WOOD COMPANY,

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Is superior in DESIGN FINISH and WORKMANSHIP. In REGULATION and ECONOMY it has no equal. Built with new tools, from new patterns and after long experience, it should and DOES mark the latest step in steam engineering.

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NO EXPENSIVE PLANT REQUIRED.

SEND FOR CIRCULAR.

210 E. LEXINGTON STREET, BALTIMORE, MD.

FOR SALE.

SECOND HAND RAILS.—200 TONS OF 20 LB. and 50 TONS OF 16 LB. Selected Second-hand Steel Rails, good as new. Ready for delivery now. Can deliver at St. Louis, Kansas City, Chicago or Omaha. Also 150 tons of selected second hand 30 lb. Iron Rails at Hensley, Wisconsin. We are always in the market for second-hand rails in any quantity.

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HENRY R. WORTHINGTON, INDEPENDENT CONDENSERS

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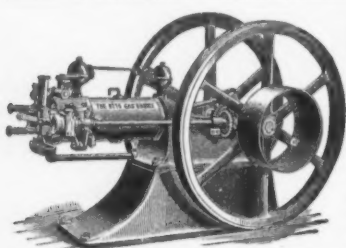
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Over 33,000 in use. **OTTO GAS ENGINE**

20 to 70 per ct. less Gas Consumption than ANY OTHER ENGINE.

Working Without Boiler, Steam, Coal, Ashes or Attendance.

Started Instantly by a Match It gives full power immediately. When Stopped all Expense Ceases.

FOR COAL GAS, GASOLINE, NATURAL GAS, PRODUCER GAS.

No explosions, no fires nor cinders, no gauges, no pumps, no engineer or other attendant while running. Recommended by Insurance companies. UN-
SURPASSED IN EVERY RESPECT for hoisting in warehouses, printing, ventilating, running small shops, &c. Sizes, 1/2 to 100 Horse-Power.

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WE SELL Twisters,

Warpers, Spoolers, Reels, Temples,

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GEO. DRAPER & SONS, Hopedale, Mass.

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Flour and Corn Mill Outfits Complete. { Highest Product

Over 1,000 of our Roller Mills in use. Over 8,000 of our Portable Grist Mills in use. Guaranteed.

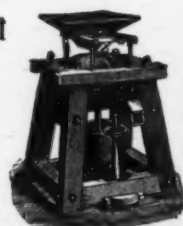
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Adapted to any kind of power. A boy can run and keep it in order.

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RESISTANCE to Great Pressure; Unobstructed Flow of Water; Increased Flexibility and Perfect Protection are some of its Advantages.

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The making, vending or use of any SERVICEABLE ARMORED WIRE-BOUND HOSE not of our manufacture is an infringement on one or more of our patents, and any violation will meet with instant prosecution. Brass plates mark each coil and admonish infringers, whether evil-minded or ignorant.

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MANUFACTURERS' RECORD

A Southern Industrial, Railroad and Financial Newspaper.

VOL. XX. No. 5.
WEEKLY.

BALTIMORE, SEPTEMBER 5, 1891.

\$4.00 A YEAR.
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WM. H. EDMONDS, BUSINESS MANAGER.

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BALTIMORE, SEPTEMBER 5, 1891.

THE settlement of Virginias bonded debt on a basis alike satisfactory to her creditors and honorable to the Commonwealth will be demanded of the legislature when it shall assemble next December. A recent forcible editorial in the Norfolk Landmark is but one of the many evidences daily presented that the newspapers and people of Virginia are by a large majority in favor of early and final action on this vexed question. The people of that State have never dreamed of repudiation. They have been rather in the position of an honest firm that has encountered financial reverses, and is unable to pay its obligations in full. Such being the situation, the creditors are called together, the facts are laid before them, and whatever the debtor can pay is accepted as in full of all demands. This rule of action in the business world has been employed in the debt settlements of many of the Southern States since 1865. The voice of the press of Virginia, the resolutions adopted at the recent session of the Farmers' Alliance and numerous expressions from business and commercial organizations during the past few months all go to show that public opinion is nearly unanimous in favor of ending this controversy by an early and equitable settlement. It is of the greatest importance that this should be effected as soon after the legislature convenes as possible, for weighty affairs, involving investments that will finally aggregate millions of dollars, and that will greatly advance Virginia's development, are delayed awaiting the action of the next legislature.

Rain Made To Order.

When, through the persistent efforts of Hon. C. B. Farwell, of Chicago, Congress was induced to appropriate a small sum of money for an experiment in rain-making in the arid regions of this country, the wits and paragraphers of the press made all manner of fun of the Illinois senator. Now the laugh is with that statesman and those who had faith in his projects. This was to employ dynamite or some other powerful explosive, at a high altitude, to bring together the different currents of the upper air strata. Some of these are warm and laden with moisture, while others are dry and cool. When these currents meet and mingle, the moisture in the first is condensed and falls to the earth. Such was the theory of the advocates of rain-making. Within a fortnight practical tests have been made in Texas and New Mexico, and the truth of the hypothesis established.

About the year 1840-41, Professor Espy, a eminent scientist of Philadelphia, published a book entitled "The Philosophy of Storms," in which the same theory was stated. He had long been a student of wind currents, but his theories on this subject were founded on observations made during several years, that whenever the 4th of July was celebrated by an unusual cannonade, heavy showers invariably occurred. The same fact was noted after every great battle of the late war in this country, and this had much to do with Senator Farwell's faith in the success of some such method as has just been tried.

While Professor Espy had the same theory, he advised a different method of utilizing it. He had noticed that great conflagrations were generally followed closely by storms, and he argued that whenever fuel was plenty where a drought occurred, all needed was to build an immense fire on some lofty elevation, and the hot current ascending to the higher stratas of air would cause them to mingle and rain would follow. A committee of the French Academy

of Sciences reported favorably on his theory, but no experiments were ever made to test it. In many of our older Atlantic cities there are still to be seen on chimney tops huge metallic revolving things shaped like an old-fashioned "scoop bonnet." These are Professor Espy's patent ventilators, which, turning with every change of wind, prevented smoke from being driven down the chimney by keeping up the draught.

The experiments ordered by Congress were intrusted to the Department of Agriculture, which gave them in charge to Gen. R. G. Dyhrenfurth. That gentleman selected Midland, Texas, for the first experiments, and there he arrived week before last with a party consisting of Professor Edward Powers, of Delavan, Wis., civil engineer; Dr. C. A. O. Rosell, chemist; Professor George E. Curtis, Smithsonian Institute, meteorologist; John T. Ellis, secretary; Paul A. Draper, electrician; two balloonists, and a large number of assistants.

The ranch of Nelson Morris, comprising 300,000 acres, on which no rain had fallen for six weeks, was chosen for the trial. This is a vast prairie, over which the winds are continually sweeping. There a shed was built, in which the oxyhydrogen gas was made and the balloons inflated. Three classes of experiments were made. One was the explosion on the earth of giant powder and rend-rock booms; the second of sending to a lofty height large cloth kites, heavily loaded with dynamite cartridges. These were exploded by an electric current sent to them through the wire used instead of a kite string. The third was by balloons charged with oxyhydrogen gas, which exploded at a height of 5,000 feet.

A copious rain followed close after the first explosion; it continued several hours over a large area. Four other experiments were made, and were attended by similar results.

The truth of the hypothesis having been demonstrated, it remains for scientists and inventors to show how practical results may be obtained from it. Congress cannot be expected to provide a corps of artificial

rain-makers, to be ordered to any part of the country where a drought prevails, or to maintain one in those arid regions of the West where no settlements have been made. Possibly corporations may be formed with a force and equipment kept ready for service, that may be called when needed, just as wrecking companies are called by ship owners. Then counties and townships could pay to save their farm crops from destruction, or to replenish their exhausted wells and springs by water forced from the clouds. Perhaps the enterprise might take the form of a rain insurance company, and for an annual sum guarantee communities an ample supply of showers. All these things time will determine.

Now let science apply itself to the work of discovering how to keep back untimely rains. There are more crops in this country damaged by too much water than by droughts. If science can command the forces of nature in the one case, why not in the other? Even the Farmers' Alliance would petition Congress to vote all the money needed to achieve that result.

The Finest Ship-Yard in the World.

Some months ago when the MANUFACTURERS' RECORD stated that the ship-yard at Newport News, Va., built by Mr. C. P. Huntington, at a cost of about \$3,000,000, was the finest ship-yard not simply in America but in the world, some of our readers could scarcely believe that this was true. That Virginia had the best ship-yard in the world was to them incomprehensible. Last week Mr. Irving W. Scott, president of the Union Iron Works of San Francisco, which built the United States Cruiser Charleston, and Mr. C. H. Cramp, the Philadelphia ship-builder, returned from a tour of inspection of all the great ship-yards in Europe. In an interview published in the New York Press, Mr. Scott said:

I visited the great ship-yards of Hamburg, Barrow, Belfast and Glasgow—that is to say, the Dutch, English, Irish and Scotch yards. They are not much ahead of the United States, except in a few modern inventions. No one of the yards I visited is as large, complete and perfect as the ship-yard at Newport News, Va., which is principally owned by C. P. Huntington.

Newport News, Va., and the whole South can afford to do some boasting over having the world's finest ship-yard.

The Prosperous South.

FARMERS AND MERCHANTS LESS IN DEBT THAN FOR YEARS.

The Largest Grain Crops Ever Produced Offset the Low Price of Cotton.

The Testimony of Southern Bankers as to the Financial Solidity and Bright Prospects For That Section.

THE MANUFACTURERS' RECORD has never presented to its readers a more promising report as to the solidity of the financial interests of the South, the condition of the farmers and business men, and the bright outlook for a season of great prosperity in that section, than it gives to-day in the testimony of leading bankers in every State from Virginia to Texas. These reports are so uniform in character that they may be briefly summed up as follows:

With the coming of the panic which followed the failure of Baring Bros. all Southern business men and bankers commenced at once to prepare for trouble by strengthening their financial position, contracting their operations as much as possible, and husbanding their resources in every way in order that they might be prepared to meet the expected long period of financial stringency. The result has been that the South is said to be less in debt than for many years.

New enterprises for the development of mineral properties and for town building operations which require large capital, have been held in abeyance to a large extent. Speculation almost entirely stopped, but legitimate business interests have been sustained, and steady solid progress has been made even during this period of depression. Last year's large cotton crop, following three large yields, placed Southern farmers in better position than for some years, notwithstanding the low prices. This year the South has raised probably the largest grain crops in its history, the aggregate of wheat, corn and oats reaching in all probability nearly 100,000,000 bushels more than last year. This enormous increase in grain production added to the abundant yields of fruits and vegetables will probably fully offset the low price of cotton. Moreover, this year's cotton crop has been raised with less indebtedness than

any crop for many years, and the farmers are in many cases reported to be less in debt than at any time since the war.

While all business interests have been quiet, awaiting the return of confidence to the financial world, everything has proceeded on a quiet, solid basis, and the outlook for a substantial development of the whole South was never more promising.

Fewer Failures than for Ten Years—Abundant Crops of Corn and Cotton—A Bright Future.

THE COMMERCIAL BANK OF AUGUSTA, }
AUGUSTA, GA., Aug. 26, 1891. }

There have been fewer failures in business in this section than for the past ten years. Money has been close, but we have supplied all legitimate demands of trade, which we regard as being on a sound basis. Augusta has carried through the summer from 12,000 to 15,000 more bales of cotton than she has ever done before, which in round numbers represents from \$500,000 to \$600,000, which goes far to prove the excellent condition of both merchant and planter, or else this cotton would have been sold long ago. Crop prospects were never more promising or abundant. The oat crop was a large one and very fine. The area of corn planted is greater than ever before, and the crop as fine as one could wish. Cotton is as good as the land can produce. As the growing crops have been made on less borrowed money than ever before known, we can see no reason why the prospects of the South should not continue to grow brighter and brighter. We thank you for the interest you have always manifested for the South.

L. Y. TALLIAFERRO, Cashier.

Best Food Crops Ever Raised—Money Kept at Home—Business Solid and Prosperous.

THE MERCHANTS & FARMERS' BANK, }
SPARTANBURG, S. C., August 26, 1891. }

In response to yours as regards the financial outlook for our section, we regard the condition of the South not materially affected by the monetary crisis of last year. The outlook for corn and other staple bread crops was never finer for this section, and cotton promises to equal production of last year, the finest season we ever had. We can afford to sell cotton at a lower figure than ever, owing to the fact that it will be in a greater degree than ever a surplus crop. The usual amount of money spent to the West for food products being retained at home, manufacturing enterprises have secured their raw material at a minimum cost, and can afford to compete with sections having to pay freight on the crude material. The scarcity of money in our section indicates greater caution in investments and husbanding resources for enterprises already established. The banks of our section have contracted loans, and confined them in a great measure to the actual needs of safe, conservative business men and corporations, declining all speculative risks on discounts. Hence we anticipate a healthy growth consequent on the rigid application of business rules for purposes of credit, backed by a bounteous product of the fields and factories.

L. C. CANNON, Cashier.

Banks, Merchants, Manufacturers and Farmers Prosperous.

THE AMERICAN NATIONAL BANK, }
MACON, GA., August 27, 1891. }

I congratulate you on the great work you are doing for the South. Your position in regard to the Southern situation is correct. Failures and scarcity of money since the Baring troubles have not been confined to any one section, but the whole commercial world has been affected. The South did not escape, but she is still solid.

The records in the office of the controller of the currency, at Washington, will show more failures among the national banks of the West in the last twelve months than among the national banks of the South in proportion to the number of associations in operation. This, too, in spite of the tremendous wheat crop of the West this season. While money in the South has been scarce, nearly all legitimate enterprises have been taken care of and property has maintained the same prices of two years ago. The merchants have been very prudent, the farmers have not bought much, the banks have not loaned much, the conservative manufacturers have not accumulated big stocks, and all have been waiting for the "crash" that never came. It is my opinion that cotton at the present low price will net the farmers about as much as they usually make and that next Christmas will find the South the happiest part of the globe. The South is the "garden spot" of the world. The South has more advantages than can be claimed by any other section of the United States or any one country on the globe. The South is beyond the reach of enemies, unless they come with bullets and bayonets, and even then she will hold her own unless overpowered by numbers. Long live the South and the MANUFACTURERS' RECORD.

L. P. HILLYER.

More Solid and Healthy Financially Than for Years.

THE FIRST NATIONAL BANK }
OF DURHAM, N. C. }
DURHAM, N. C., August 28, 1891. }

I acknowledge the receipt of your circular letter of the 24th inst., and desire to thank you for the opportunity you wish to give in your valuable publication to refute the erroneous reports which have been circulated for the sole purpose of retarding the growth and interests of the South, that another section may derive profit thereby. Such reports may work for awhile as mere speculative talk, but reality of things is where the truth asserts itself, and it can be truthfully said of the South, that she is in a much more prosperous condition, in its general industrial progress, and in a more solid, healthy basis now than it was last year, and we all know the advantages realized then over former years. I have been told by a number of Eastern capitalists, and seen letters from others stating that Southern securities are the most desirable of any. As to the general financial and business prospects of this section, there is everything about it to inspire confidence. We know that the enemies of Southern progress seek to prove that the South's business and financial interests must suffer heavily, and that by reason of that investments in this section by Northern capitalists would prove unprofitable; but when you have the whole people's minds and inclinations fixed on one and the same result, it is very certain to be accomplished. And as often the time has been in our monied centers when danger was apprehended and a calamity certain, by the united efforts and each one working for the same end many a panic has been reverted. So is the South, while hearing of these things intended for her detriment, she moves on with a united determination to overcome all obstacles and be second to no section in our united country.

LEO. D. HEARTT.

Merchants and Farmers in Better Financial Condition Than Last Year.

THE W. H. HEAD BANKING CO., }
FORSYTH, GA., August 27, 1891. }

We have as much confidence in the future of the South as we ever had, and are sure that the future is bright in our section, and investments can be made here as profitably as anywhere. It is true that the stringency of money has retarded business some, but that has worked to the best advantage for all. Our farmers are in bet-

ter fix, and will be able to meet their obligations. Merchants and bankers have all dealt very cautiously for the past twelve months, and with it all our opinion is that all are on a better basis than they were twelve months ago. Capital here can do as well as anywhere, and there are investments that can be made on a sound basis and perfectly safe. The farmers all say that they have made nearly enough of corn, hay and peas to last them through the next year, and the low price of cotton has taught them a lesson, and all say they will not plant more than half the cotton next year. A large portion of our farmers are able to hold half of their cotton crop, saying half will settle all their obligations, and leave them with their corn and hay and half of their cotton on hand. Our farmers are not disposed to sell more than half of the cotton the present season. With it all, we do know that our own merchants and farmers are in better fix than they were one year ago. We are arranging to start a new bank here with \$200,000 capital. We will have here a cotton factory, guano factory, mill and two ginneries. We believe another cotton or yarn mill would do well here, and would be glad to have some capitalists to come and see the situation, and we think we can convince any fair-minded man that he can invest here and make as good return as can be done anywhere.

THE W. H. HEAD BANKING CO.

In Better Financial Condition Than For Years.

THE NATIONAL BANK OF MARTINSBURG, }
MARTINSBURG, W. VA., August 25, 1891. }

Our crops of grain and fruits are abundant and of good quality. I believe our people generally, especially the farmers, are in better financial condition than for years. The prospects for a good fall business are unusually bright.

GEO. S. HILL, Cashier.

Crops Exceptionally Good—Prosperous Enterprises—Heavy Investments by Northern Capitalists.

THE PIEDMONT BANK OF MORGANTON, }
MORGANTON, N. C., August 26, 1891. }

All crops in this section are exceptionally good, especially the fruit crop. I am familiar with six corporations in this place and section in which Northern men are largely interested—three of them are land companies, or at least lands are the principal assets of the three companies; one is this bank, and the other a manufacturing enterprise. In all of them, except one, Northern men own a large majority of the stock, and are perfectly satisfied with their investments, some of which, to my own knowledge, have paid them 12 per cent. this year. The principal stockholders in four of the corporations have been here during this month examining the condition of affairs and contemplating further investments, and were so well pleased with the investments made that they have made others, and expect to make still more. They said they were not looking for a "boom town," but a town and county where the growth was steady, substantial and rapid, and believed that they had found it here. A company composed almost entirely of Northern men took \$15,000 stock in a development company which owns 500 or 600 town lots and several hundred acres of land in this place. Another Pennsylvania and Boston syndicate have purchased about 50 acres of land in the town, and are building a large tannery here. This shows what Northern men themselves, who personally come to this section, think of our future. The Northern men here interested have so high an opinion of our future that companies which they control have within the last year purchased about 150,000 acres of land, and negotiations are now pending by some Michigan parties for the purchase of 40,000 acres in this county in the "thermal belt" for the purpose of growing fruits. My own opinion, being a native, is that we have so many natural advantages

in North Carolina, especially in the Western or Piedmont section, that it is bound to grow, and so long as values are kept real, and not made fictitious by booms, by prospects of furnaces, etc., that investments are bound to yield good returns, and any man can satisfy himself the values are real, and investments made in this section in many things will yield good returns.

S. T. PEARSON, Cashier.

Big Crops and Good Prices.

THE TYGART'S VALLEY BANK, }
PHILIPPI, W. VA., August 26, 1891. }

Our general crops have been as good as we have had for years, and our corn crop now promises to be the best for years. And the acreage is much larger than ever before. Cattle have brought good prices, from 4 to 5 cents, and early lambs brought from 4½ to 5½ cents. Our wool sold for from 25 to 27 cents unwashed. New wheat here is \$1 per bushel. I see no cause to be discouraged; our farmers only need encouragement to plant larger crops and raise more to sell, and not be compelled to buy grain at the season when it brings the best prices.

G. W. GALL, JR., Cashier.

Everybody Disposed to Pay Debts.

HAWKINSVILLE BANK & TRUST CO. }
HAWKINSVILLE, GA., Aug. 26, 1891. }

While the price of our principal staple is very low, I do not observe any discouragement among the people, and feel that a disposition is apparent among them to go on, and think that a general ability is prevalent and is governing to keep all enterprises a moving. I think the disposition to pay debts is apparent, and will influence a general prosperity, and a want of confidence does not prevail among those who have aided by their means to favor the industries of this country. C. T. LATHROP.

Business Rapidly Improving—Abundant Crops and Good Prices.

CITY NATIONAL BANK, }
KNOXVILLE, TENN., August 26, 1891. }

Business of every character in Eastern Tennessee is rapidly recovering from the lethargy of the spring and midsummer condition. Collections are good, money is easier, trade in every line is growing active and the feeling in business circles is hopeful and confident. The crops of this section, especially wheat, corn and fruit, are extensive and abundant, and farmers are selling promptly and getting satisfactory prices. Knoxville is a conservative and prudent city in all business affairs, and has suffered less and business has been retarded to a less extent than most other places South or East the past year. There is no pressure or distress financially in this section. WM. S. SHIELDS, President.

A Prosperous Georgia Town.

THE BANK OF CORDELE, }
CORDELE, GA., Aug. 27, 1891. }

The city of Cordele is only three years old. We have now three splendid railroads, one national and two State banks, and eleven factories. Our population is 2,500, and city is growing very fast. Cordele is said to be the largest inland lumber market in the world. The great ocean of pine timber here looks as though it was yet untouched, although we have 200 saw mills and some 80 turpentine distilleries tributary to this place. There has not been a failure in business of any kind in the city since it was built. At present there are some forty dwellings being erected, and Emerson & Kirkland are erecting a large planing mill and sash, door and blind factory that will give employment to over 100 men. We have not had any Northern capital invested here within last twelve months, but within last two weeks we have had frequent inquiries from the North as to our local stocks and bonds, which are now offered low, on account of prevailing stringency having a tendency to depress prices. The South's progress is now hindered by the incessant bickerings of such men as Henry Clews & Co., who give needless ad-

vice of caution in their weekly circulars against Southern investments. Our Northern friends who have invested small amounts here are well pleased with the returns, which are greater than if invested North where money is cheap. The ruling rate of interest here is 12 per cent. per annum, and as we have a great number of new enterprises on hand money is in active demand. Indeed the great need of this section, and of all Georgia, is more money to develop the many golden opportunities offering here. Home capital is doing much to develop South Georgia, but our people are anxious to encourage immigration and capital to this God-favored section to help swell the tide of prosperity, it marches onward and upward. J. E. D. SHIPP, President.

Less Indebtedness than at any Time Since the War.

FIRST NATIONAL BANK, }
CARTERSVILLE, GA., August 27, 1891. }

In this section of country we have had no "boom." Our people owe less than at any time since the war between the States. Agricultural products are more diversified. Lands are being improved in fertility, and farmers are raising an abundance of everything on which we subsist, and are turning their attention, many of them, to stock raising, as well as to the production of good cotton crops, to bring them in a surplus revenue. We have a country here very superior in soil and mineral wealth, and blessed with one of the most healthful and delightful all-the-year climates in the world. Certainly those who wish to make investments where they would be undoubtedly safe, or those who desire to locate in one of the best countries in America, and amongst the most moral and orderly people that the writer ever knew, can do no better than to try Cartersville, Ga. These are the opinions of one who was born in the blue grass country of Kentucky, and lived in that grand old State all his life until he came South a few years ago.

J. H. VIVION.

Never in a More Healthful Financial Condition.

ELBERTON, GA., August 29, 1891.

I am glad to be able to report to you that you are, as far as I know and can judge, perfectly correct in your opinion that the general industrial progress of the South is on a solid and healthy basis. As far as this section is concerned, we have no shaky concerns of any sort or kind whatever, either industrial, financial or commercial; and while there has been for the past six or seven years a regular and steady building boom going on here, there is at the present time a very large per cent. more of new industries being started and now in process of completion, more building and improving going on of a solid and permanent character, and more activity in a business and industrial way than ever before in the history of this section; and this section has never before been in a more healthy and solid condition financially, commercially and industrially than it now is.

H. K. GAIRDNER.

Outlook Was Never Better.

CITY NATIONAL BANK, }
PADUCAH, KY., August 27, 1891. }

The outlook for our section of country was never better. We have a magnificent corn crop so far advanced that hardly any accident in the changes of weather could affect its yield. An excellent wheat crop has been harvested, and readily sold at home at prices entirely satisfactory and quite remunerative to the farmers. The tobacco crop, which is the staple of our county, is a fair one. Most too early to tell what it will be, but with favorable weather it will be a fair average crop, commanding prices at home that are remunerative to the growers. Fruits of all kinds are abundant, and will bring some money into our section. Our manufactories are all running on full time, and disposing of

their output at prices satisfactory to them. Our merchants seem to be doing well. We have had very few failures for the past year, and they were small ones. We are a little above the cotton belt, but a good deal of our trade is in the cotton-growing country. The reports of our drummers in that section are very flattering for an average trade that seems perfectly satisfactory to our merchants and manufacturers. Our banks here are in an excellent condition, and abundantly able to supply all legitimate demands. Money and emigrants need not avoid our section, as both could be profitably employed.

ELBRIDGE PALMER, President.

Best Wheat and Corn Crop for Years—A Promising Outlook.

LENOIR CITY BANK, }
LENOIR CITY, TENN., August 27, 1891. }

Notwithstanding the dull season and stringency in money matters, we hear very little complaint in business circles. The present wheat crop, which is finding a ready market at a satisfactory price, is better in quality and larger in quantity than for years. The corn crop is exceedingly larger in this section; it is maturing now, and there is every indication for a large yield per acre. We consider the financial and business prospects of our part of the South encouraging.

J. P. SIMPSON, Asst. Cashier.

The Prosperous Panhandle of Texas.

THE CITY NATIONAL BANK, }
QUANAH, TEXAS, August 26, 1891. }

While the tightness in the Eastern money markets was felt here to a certain extent, still our country is in a very prosperous condition. This is a stock and grain country, and our farmers have made large crops of grain and are realizing good prices for it, and our stock men are getting good prices for their cattle, and the merchants are making fine collections, and everybody seems to be in good spirits and happy. I don't think that there is any country that is in a finer condition than "the Panhandle of Texas," and I know of no better place for investments at present.

WM. F. BRICE, Cashier.

The South's Growth on a Solid Basis.

BANK OF CHERAW, }
CHERAW, S. C., August 29, 1891. }

In my judgment the progress of the South is upon a basis too solid to be materially affected by present low price of cotton. Throughout this section the grain crops are good. The corn crop is estimated at from 25 to 75 per cent. better than last year, the former being the lowest and most conservative estimate. Our business men are preparing for increased business, and our town is growing—new buildings going up—and I see no cause for capitalists to hesitate in choosing between this section and the West, with its droughts, storms and frosts in August. R. T. CASTON.

A Bright Outlook at Bedford City.

FIRST NATIONAL BANK, }
BEDFORD CITY, VA., Aug. 31, 1891. }

The outlook is fine. We had a large crop of wheat, and the prospect for corn is the finest we ever had. The tobacco is good and looking well. Our people are in good condition. We look forward to the future with confidence. So far there has been no foreclosure sales made in our town. There has been more houses built here this year than last, and there is good demand for them at rates that pay 8 to 10 per cent. T. D. BERRY, Prest.

Everything Prospering at Norfolk.

THE CITIZENS' BANK OF NORFOLK, VA. }
NORFOLK, VA., August 31, 1891. }

The situation in and about Norfolk, as well as in the section tributary to our port, is in every way satisfactory and encouraging. Our farmers and merchants and those engaged in other valuable industries are well pleased with the outcome of the past season's business. The cotton and other crops were exceptionally good, and were marketed at highly remunerative prices. Other interests have been and

continue to be prosperous. It may safely be said that our farmers and merchants and other representative business men are in better condition financially than for many years previously, and are therefore well prepared to withstand the effects of any reduction in values that may occur in the near future. The various legitimate and substantial industries that have been founded at and around Norfolk within the past few years are in a highly prosperous condition, and are too firmly established to be seriously affected by any ordinary financial disturbance.

WM. H. PETERS, President.

Financial Condition of Farmers Better than for Years.

RAPIDES BANK OF ALEXANDRIA, }
ALEXANDRIA, LA., August 26, 1891. }

While the price of cotton is low, the general condition of the agricultural classes is better than for many years. The people generally are more economical in the management of their affairs. This, with larger crops of corn, oats and other farm products, will largely compensate for loss sustained in price of cotton. I regard the financial condition of our people as much better than at any time for many years and business prospects good. G. W. BOLTON.

Expecting Good Times.

BANK OF FORT GAINES, }
FORT GAINES, GA., August 26, 1891. }

While the low price of cotton has affected almost every industry in our section, yet it is not near so bad as it might have been. As everyone anticipated low prices of cotton, they have made their arrangements accordingly. The merchants have laid in smaller stocks of goods; the farmers have borrowed less money and contracted fewer debts than usual, and we are all looking for good collections. Our town has done more building the present year than for the past five. A good many new dwellings have been erected. Ten brick stores, a new Baptist church and oil mill and guano factory are in course of erection. Our bank was organized September 1 last with paid-up capital of \$50,000. Home capital has done it all, and we feel confident of all our investments proving profitable. Money is tight here now, but we expect it to be easy in 30 days, as cotton is moving very rapidly. Our farmers have good crops of corn, cane, peas, potatoes and hay. J. E. PAULLIN, Cashier.

Unprecedented Grain Crops and Good Prices.

THE HENDERSON NATIONAL BANK, }
HENDERSON, KY., Aug. 28, 1891. }

Our mineral and agricultural interests, comprising as it does the largest interest of this section, has never been so promising of large results. The wheat and corn crops are unprecedentedly large, and the prices far beyond the most sanguine hopes of our farmers when planted. The outlook for tobacco, which is a leading agricultural product here, is good; and although the crop will not be housed for thirty days yet, everything is favorable to an increased and better crop than for years. Altogether the outlook is most favorable to these interests, and our manufactories are doing exceedingly well. S. K. SNEED.

Very Promising Business Outlook.

MOSS BROS. & CO. }
LAFAYETTE, LA., August 28, 1891. }

The indications for a large fall and winter business in this section are very assuring. The corn crop, which on account of an extended drouth it was believed at one time would be reduced more than one-half, has turned out quite well. The cotton owners' last year's experience served to materially decrease the acreage of the fleecy article, and stimulated proportionately the culture of the sugar-cane and rice, the yields of which are unusually promising. The two last-named products now command excellent prices, all of the sugar-cane that was for sale being already engaged by neighboring central sugar fac-

ories at \$3.50 a ton in the field. At the price named each acre of land planted in cane will average its owner the sum of \$70. In view of the facts set forth above, conservative persons confidently look forward to an active and prosperous business season. We would be pleased to have you call the attention of Eastern capital seeking a promising field for paying operations, to the fact that Lafayette, situated as it is in the very heart of some of the finest cane-producing lands in the country, and located in such a way as to draw supplies from three different directions by rail and two by water, (Vermilion river,) offers a most inviting opening for a central sugar factory. This fact is very generally recognized by home people; but the greatest desideratum, capital, is lacking. As far as their means would permit, the support of the farming classes could be very readily enlisted as interested workers. The opening spoken of needs only to be investigated to insure its utilization. M. B. & Co.

Best Corn Crop for 20 Years—Solid Substantial Growth.

FIRST NATIONAL BANK, }
JACKSON, TENN., August 27, 1891. }

In no year since the war have our farmers and mechanics been so conservative in their purchases, either for cash or on time. Consequences are that our people, financially, are in better fix than 12 months ago. We know and understand that we will have to accept low prices for our cotton, and are fully prepared for the result. We have had a bountiful yield of fruit and vegetables, and will gather the largest corn crop that we have had in 20 years. Our hay crops are excellent. The premises considered, we are glad to say that we will be able to stem the tide. We have had a steady growth here amid the depression, and while we gladly welcome new capital, new energy and new brains, we can live, prosper and be happy without it. Our waste places have already been built up, and our industrial progress will be steady and upward. What we have done has been done well; no mushrooms, no inflation, no watered stock in this section. There is room here for newcomers, and they will be benefited by coming.

JNO. L. WISDOM, President.

Very Flattering Outlook.

FARMERS & MERCHANTS' BANK, }
HENDERSON, TENN., August 27, 1891. }

The business outlook in this section is very flattering at present, and if not damaged by early frosts the yield of cotton will be unusually large, and the corn gives prospect of the largest crop that has been raised in several years. This being almost exclusively an agricultural country, and with the flattering prospects, our merchants are feeling very cheerful, and are expecting a booming trade the approaching season. Our town is noted for its educational facilities, having the "West Tennyson Christian College" and Jackson District High School located here, and is having a continued and healthy growth. We have a great deal of valuable timber in this section, and almost any kind of a timber manufactory would do well.

R. E. MCKINNEY, Cashier.

Cotton Produced at Low Cost—Large Grain Crops—No Scarcity of Money.

CLARKSDALE BANK & TRUST CO. }
CLARKSDALE, MISS., August 28, 1891. }

The outlook for business in the Yazoo, Miss., Delta is encouraging. I see nothing in the low price of cotton to cause any alarm. The crop has been made in the expectation of low prices, and far more cheaply than usual, and planters have produced at home the corn and hay they will require for the next crop. The crops of this section are fine, and to raise another crop the planters will require but about half the money heretofore used when they bought their corn and hay from the West. The late "squeeze" in the money market has taught our people the valuable lesson

of economy, and is a blessing to the country. Money will be easier upon the marketing of this crop, overproduction will be checked and diversity of crops and economy in producing them established. These are all desirable ends, and we may thank the panic of 1890 for their establishment. The timber resources of this section are immense and just being developed, and offer a profitable return for the investment of capital which is flowing in this direction, and "hardwood lumber" is becoming as familiar to the ears of the natives as "cotton and corn." There is no danger to the general financial and business prosperity of a section commanding so many cash resources as this; and while credit lines are curtailed and less goods sold to us from other sections, there is a healthy satisfaction in knowing there will be a cash surplus to do the buying with.

R. H. WILDBERGER, Cashier.

Farmers in Best Condition Since the War—Great Industrial Activity Predicted.

BANK OF LEXINGTON, }
LEXINGTON, N. C., August 26, 1891. }

Never since the last war have the farming classes been in better condition in this section than at the present; all crops are above the average, while the prospect for tobacco is the best seen in years. In my opinion the coming winter will witness the greatest industrial advancement the South has ever known, and more Northern and foreign money will seek investment than in all the booms of the previous year.

GEO. W. MONTCASTLE, Cashier.

A 2,000,000-Bale Cotton Crop for Texas.

THE SIMPSON BANK, }
COLUMBUS, TEXAS, August 27, 1891. }

The low price of cotton will be partially overcome by the large crop we will market. Texas will in all probability market 2,000,000 bales this season, while last season's crop was 1,500,000, so the volume of money will not be altered materially, besides the wheat crop is fine and other cereals very good.

CAREY SHAW, Cashier.

Best Business Outlook Ever Known.

THE FIRST NATIONAL BANK, }
MARBLE FALLS, TEXAS, Aug. 26, 1891. }

The financial and business condition of this section never was as good as it is to-day. There is plenty of money at reasonable rates, and business enough to use it nicely. There have been no failures in this section at all this year, nor will there be any, since the danger point has already passed.

W. O. RICHARDSON, Cashier.

Texas Is Growing Solidly and the Prospects Are Bright.

AMERICAN NATIONAL BANK, }
AUSTIN, TEXAS, August 26, 1891. }

The condition of Texas is good and the outlook is encouraging. We have probably made the largest crop in the history of the State. The low price of cotton is largely offset by the advanced prices obtained for cattle in the spring and early summer. While money is scarce and in active demand, the people generally are freer from debt and surrounded by more of the comforts of life than formerly. Our progress is solid and healthy. The trouble with the whole country is a scarcity of money. Our present circulation is inadequate to properly care for the demands of agriculture, commerce, manufactures and mines. Although engaged in national banking, I believe all money should be issued directly by the government and should be a legal tender for all dues. Texas is in a better condition financially than almost any of the Western States, due, in a large measure, to the beneficial effects of our homestead law, which holds the home of the family sacred from mortgage or execution, except for purchase money or improvements. Just at this time interested parties are industriously seeking to injure the good name of Texas by pre-

dicting dire results of a law passed by the last legislature known as the alien land law. For several years aliens and their agents have been loaning vast sums of money to the people of Texas and have been feasting upon the products of the State without sharing with us the burdens of taxation, and when by law the State seeks to put them upon an equality with her citizens she is charged by these aliens with the perpetration of a great wrong. Without touching upon the merits of this particular law, yet I could not be a believer in the Monroe doctrine and not believe that all who enjoy the benefits of a government should share an equal and just proportion of the duties and responsibilities of citizenship.

WM. R. HAMBY.

A Good Opening for Capital.

CITY NATIONAL BANK, }
BROWNWOOD, TEXAS, Aug. 26, 1891. }

There never has been a time when this State of Texas offered better openings for investments than she does just now. All business and thinking men are urgently inviting Northern and Eastern capital to come this way. The doors are open and a hearty welcome is ready.

S. J. WALLING, JR., Cashier.

Well Satisfied With the Business Outlook.

FIRST NATIONAL BANK, }
VICKSBURG, MISS., August 28, 1891. }

The Southern people have every reason in the world to be proud of their financial condition. While the cotton crop last season did not net us very well, I think with the present outlook that cotton will bring us a fair price, as since the last cotton report the worms have injured the crop very materially, and many other things have happened to cause a shortage in the crop; these things will increase very much the price of the crop. I am told by the managers of several of the trust companies who do business in this section that they have less trouble with Southern loans than with loans in any other section of the country. The manager of one of the largest companies doing business in the city reported to me the other day that he is only carrying one loan upon which the interest had not been paid. I am very well satisfied with business in this section, and I think that the Southern people generally have no reason to complain.

JAS. P. ROACH.

No Financial Troubles—Only Speculative Booming Hurt by Monetary Stringency.

BOYLE NATIONAL BANK, }
DANVILLE, KY., August 29, 1891. }

There are no conditions prevailing here that do not exist elsewhere to the same or to a greater extent. It is true that in the South as elsewhere speculation in individual cases has been reckless and disastrous, but I doubt if the Middle and Southern States have been on a more substantial basis for a good many years. The excellent crops of the Western and Middle States, together with the fair prices for grain and live stock would largely compensate for the low price of cotton, but the unusually large crop of cotton holds its own equivalent in the increased amount that will be sold. There has been much talk and some considerable stringency in money, but it has been mainly caused by the withdrawal of Eastern capital furnished to speculators for booming towns and other speculative investment, and such withdrawal has caused prudent bankers here to hold their resources well in hand in order to protect themselves from contingencies which might arise. The farming interests in this section seem to be on a satisfactory basis, and as soon as the panic subsides in the East money will be easy in the South. I do not believe there is any safer place for money, when judiciously placed, any where than in the South, and without pretending to compare

statistics I venture the opinion that the failures in the Eastern and New England States outnumber and exceed in amount the failures of the South. Perhaps, failures in the shoe and leather business alone would measure well up to the whole of the failures of the South. A little more indulgence here will bring matters around all right.

J. W. PROCTOR, Cashier.

Expect to Have More Money Than Ever Before.

AMERICAN GERMAN NATIONAL BANK, }
PADUCAH, KY., August 27, 1891. }

In regard to Paducah will say there is a healthy, steady and continuous growth in our wealth and population, and there is not the slightest sign of any check to such growth at present. We have had no boom, and have not had to suffer from any reaction. The crops in our county were never better, including tobacco, wheat, corn and all sorts of vegetables. We expect to see more money in circulation here and in this vicinity within the next six months than at any time in the history of our country.

GEO. C. THOMPSON.

Decreasing Indebtedness and General Prosperity.

CAPITAL STATE BANK, }
JACKSON, MISS., August 29, 1891. }

Noting the fact that some are pointing to the low price of cotton as evidence of business depression in the South, I beg to call attention to all the other facts which are stronger evidence of Southern prosperity and advancement. The output of our mines is large, and at a less cost than in other sections; our factories of all kinds are running on full time and paying larger dividends than those of a like kind in the older States; our crops of wheat, oats, corn, cotton, rice and cane are large, of excellent quality, and at present prices will bring a net gain over cost of production; our lumber finds ready sale at good figures even in the far Northwest, and as a consequence our timber lands are sought by mill men from that section; our farm lands are no longer a drag on the market, but furnish a good basis of credit, while the mortgages on our lands (never so great as those of the West) are gradually being liquidated by the energy and thrift of our people; our established schools are being strengthened, and new ones constantly projected, and it is doubtful if another State can show a system of public education with better practical results. Capitalists seeking investments can make no mistake in coming South, whether they wish to invest in mining, manufacturing, gardening or farming.

B. W. GRIFFITH.

Most Prosperous Outlook for Mercantile Business for Some Years.

THE NORTH TEXAS NATIONAL BANK, }
DALLAS, TEXAS, August 27, 1891. }

With the one exception of real estate in the larger cities, the State of Texas was never in a more prosperous condition. The alleged hard times for the past eight months have caused nearly all to conduct their business on the most conservative basis, and to liquidate the largest part of their indebtedness, and they are only incurring temporary liabilities for filling in certain lines of stock. Thus our merchants all have fairly good stocks on hand, on which they owe comparatively little, and the largest part of their outstanding accounts are against farmers, who have abundant crops already harvested, and when marketed, they will be able to pay their debts and have a little left over. Cotton may be at a low price, but I have just returned from a trip through our Pan-Handle country where they do not raise cotton, but are now marketing the largest grain crop ever known in that section, and this, with the improved condition of cattle in the western part of the State, causes them to be quite easy in a financial way, and you do not hear any talk of hard times from that country. Real estate indebted-

ness is also being liquidated by the makers of the liens against property losing what they have paid on it in consideration of the original owners delivering to them their notes for the deferred payments. This, you see, will soon cause many men to have probably but little, but what they do have they will owe nothing on and be able to hold it, awaiting more prosperous times. The result of our investigation from various sources throughout the State convinces us that the recent hard times has weeded out the weaker merchants, and credits are now firmly established and our merchants are sanguine of the most prosperous business they have enjoyed for three years. Having come to Texas some six years ago from the older States, I have carefully endeavored to study the situation in all its phases, and have been back to the older States frequently, only to return more thoroughly satisfied that Texas and the South in general is the greatest country and most inviting field for young men and capital that I could find.

J. B. OLDHAM, Cashier.

A Prosperous Season.

THE COMMERCIAL BANK,
CEDARTOWN, GA., August 27, 1891.

This is not only a fine agricultural but the chief mineral section of our State. More iron ore is shipped from Cedartown than any other point either in Georgia or Alabama, except Birmingham. The depressed condition of the iron market has more or less affected the mining interests in this locality, but our mines have kept up remarkably well under the circumstances, and are now making preparations for a more extensive business. Our town has a steady growth without any "boom," and while prices of real estate are not high, still they have been well maintained during the dull season, no one being forced to sacrifice any property, and no property is being sold below value. Our manufacturing interests are being cared for. The machinery for a large cotton mill is now on the ground, and before a great while will be in active operation. Money has, of course, been tight during the summer, but as compared with other places (so far as our information goes) we are doing well. This bank has always been able to meet the legitimate wants of its customers, and since its organization has never borrowed a dollar. Our crops promise well, and we confidently expect a prosperous season.

ROBT. O. PITTS, Cashier.

Flourishing Manufacturing Interests.

"MISSISSIPPI MILLS,"

WESSON, MISS., Aug. 28, 1891.

The stringency in money matters has in a measure checked the current of general business as we think only temporarily, and we believe the healthy conditions which have prevailed during the first part of the past year will be completely restored by the abundant crops of this year. The cotton market is very firm, and we are led to hope that even with the prospects of a large crop, we may look forward to a better business than that of last year. Manufacturing interests seem to be in quite as good shape as usual, with a growing demand for products of Southern mills. The generally flourishing condition of these mills is the best indication that such enterprises are yielding a satisfactory return for the investments.

R. E. WILLIAMS,
Secy. and Treas.

Abundant Corn Crops Will Counterbalance Low Price of Cotton.

FIRST NATIONAL BANK,

GADSDEN, ALA., August 27, 1891.

We are pleased to report that in this section of five surrounding counties, including our own, Etowah, the prospects for a successful crop of cotton has not been better, for the corresponding period, for the past 3 or 4 years. We arrive at this conclusion after a careful study of the situation from personal observation and a

systematic course of inquiries among practical farmers and others well posted. We are careful not to entertain any but conscientious and not too highly colored reports. We certainly have prospects for an average crop, stalks are well fruited, but little shedding, no worms or rust, which, with plenty of rain, insures the crop, except a possible early frost which alone could cut down percentage. Our corn crop is assured, being far in excess of previous 2 or 3 years, and this means a great deal to our people. We will not have to buy corn from other sections, and thus large amounts of money will be kept at home. Plenty of corn in the South means plenty of cheap bread and meat, and makes cotton largely a surplus crop. Speculation has not been overdone in this vicinity, and values are firm and appreciating. Industrial enterprises active and as profitable as the price of manufactured product will permit in any section of the country. We have had no failures, and a more cheerful spirit pervades our entire community in view of so excellent crops, which after all is the foundation of our body politic. We are of the opinion that the abundant corn crop will largely counterbalance the present low price in cotton.

A. L. GLENN, President.

Legitimate Business Benefited.

COMMERCIAL NATIONAL BANK,
ROANOKE, VA., August 31, 1891.

While money is tight and has been tight in the South and in all the booming towns of this section, it has been a disadvantage to the boomers, but I think a great advantage to all legitimate business. While the banks have been tight up for money, yet we think there is sufficient for legitimate business. With all the boom that Roanoke has gone through, the failures in this entire period will not amount to more than eight or ten thousand dollars. I think things will now gradually increase, and this stringency, while it may hurt a few people, it will make things better at large. The people in Roanoke city seem to be in a healthy, thrifty condition, and pushing business as much as ever. I desire to say that I think we have one of the greatest towns in the whole South; and while some new towns may suffer more than we do, everything will gradually go off satisfactorily. The banks in Roanoke have all done very well, having discounted very little paper, and have been able to take care of their endorsements fairly well.

J. W. COON, President.

In Good Financial Condition—Bountiful Provisions.

BAMBERG BANKING CO.,
BAMBERG, S. C., August 27, 1891.

Replying to your letter of 24th inst., beg to state that in my judgment this part of the South is in better shape to handle cotton at low prices than ever before since the war. Our provision crop is a bountiful one, and will in a measure offset the low price of cotton.

H. J. BRADHAM, Cashier.

Town and County Prospering.

THE FIRST NATIONAL BANK
OF ASHEVILLE.

ASHEVILLE, N. C., August 26, 1891.

Our town and surrounding country are prospering. Money has been and is tight, but building progresses and we are all alive. More towns are in course of erection than ever, and it is estimated that \$500,000 have been put into improvements within the past six months.

WM. E. BRESEE, President.

The Temporary Stringency Beneficial to the South.

THE FIRST NATIONAL BANK OF ROANOKE,
ROANOKE, VA., August 31, 1891.

The South in sympathy with the other parts of our country has suffered some from the stringency of money. While real estate is not so active prices have decreased but little if any. There is a good substantial growth in nearly all the new cities of the South. While money is not

plentiful, yet there is not such a stringency as to cause embarrassment. Take Roanoke, for instance, the entire failures for years in this city have not amounted to \$10,000. Most all of our business people are comfortable financially and doing well. Take the banks of Roanoke, for instance; during all of this stringency they have taken good care of their customers and have rediscounted very little of their paper. The First National Bank of Roanoke has not rediscounted a dollar during the entire stringency. While banks are easy the people must be well-to-do. Our manufacturers are mostly working full time, and, we learn, are making fair profits. I see no cause for discouragement, and I must think that in a short time business must be very good. I do not regard the stringency which we are passing through as hurtful to us, but it will have the effect of stopping the wild booms which were becoming too prevalent. It will throw the business into healthy channels, and persons investing in real estate now will do so with the view of improving the property and make permanent investments.

H. S. TROUT, President.

Less in Debt Than for Years—A Bright Outlook.

THE EXCHANGE BANK,
MACON, GA., August 26, 1891.

The outlook for collections and business for this winter seems to be favorable in this immediate section. All people, from the jobbing merchant to the farmer, owe less than they did the same time last year, or for any year in the last few previous to this. In addition to this, the country here has been blessed with fine crops of grain, and the prospect of the cotton crop is very good; and, even with low prices for cotton, I am of the opinion that farmers will have as much or more surplus money from their cotton crop this year than for any of the last few years previous to this. I think that the condition of our merchants is good. They have been conservative, and are not widely extended in credits they have given.

J. W. CABANISS, Cashier.

Everything Promising—Not Discouraged by Temporary Financial Stringency.

BARNESVILLE SAVINGS BANK,
BARNESVILLE, GA., August 26, 1891.

The condition of affairs in central Georgia, from which I write, will, I take it, reflect the aspect of business matters throughout the South. Seasons of depression occasionally come to all countries and all peoples; it is the history of business and the history of the world; the rule is constant in experience and universal in application. We are not totally exempt from universal conditions, but as nearly so, I think, as it is possible for any people to attain. For the last few months there has been scarcity of money, and consequently some stringency in trade, commerce and general business, but this is rather exceptional than otherwise, and there is nothing in it, at all discouraging. Although left absolutely poverty stricken, and almost despondent by the war between the States, there has been more improvement in town and country the last 25 years than in the 25 years that preceded them. There are more schools, and better ones, more churches, and finer ones, more railroads, and better built, more and larger industrial enterprises of every kind and nature, more farmers, and better ones; they have more machinery, better horses, mules, and vehicles of every sort; they make more to the "mule" or acre, as it is variously expressed, than "before the war;" farms and farm houses are in better condition, more costly and more comfortable, and filled with better furniture and general surroundings; towns and villages are more numerous, more prosperous and more imposing; we have better merchants and more of them; factories of various

kinds, almost all kinds, have sprung up everywhere; market gardening, vegetables, grapes, fruits, melons, unknown to us as a money crop 25 years ago, are now receiving much attention and yielding remunerative returns. The food crops—grain, meat and poultry—are much better this year than usual. The price of our great staple, cotton, it is true, is lower than usual, but our people are nearer out of debt and do not need so much money; and while the price of the staple is not so flattering, we hope to supply the deficiency in price very largely by the increased quantity. This, with the abundant harvests, will place us in a safe position and ensure us against business disaster and unhealthy depression. While there is more or less of business stagnation throughout the world, I see no cause for alarm here. Our people are possessed of wonderful vitality and remarkable adaptability to circumstances. Nursed at the breast of adversity, and cradled in a frame-work of adverse circumstances, they wring prosperity from conditions that paralyze others. The last 25 years have taught and trained us in self-dependence. Our climate is pure, our water good, our surroundings inspiring, our people hopeful and brave, and equal to any emergency. A little temporary and evanescent depression only nerves us for greater and grander work. The future is bright, and the next quarter of a century will eclipse in progress and prosperity, the last as much as the last surpassed the 25 years that preceded our great interstate commotion.

J. POWELL.

Low Cost Cotton—Farmers Less in Debt and Large Food Crops.

THE BANK OF CAMDEN,
CAMDEN, S. C., August 26, 1891.

While there is at present some apprehension that the South must market its principal crop too near cost to be altogether comfortable, there need be no cause for general alarm at the result. The crop has been cheaply grown and has little of past years' obligations charged against it. The crop of 1890-91 cleared off 75 per cent. of old debts and started the prudent planter with a clean score for 1891. The bread and other home supply crops are good, and where the planters desire it they can get reasonable help to hold a portion of their cotton crop. There is considerable agitation caused by the supposed overproduction of cotton, and should the present outlook for prices be realized 1892 will show very radical changes in cotton planting in this section, perhaps a curtailment in acreage of 50 per cent. and a corresponding increase in other branches, such as food supply crops, with stock raising. Merchants have taken hold prudently. Their obligations, so far as we are informed, are inside of a safe basis and their fall purchases prudently limited. We see nothing here to clog the wheels of progress or justify a deflection of capitalists' money from the South.

H. G. CARRISON.

Low Price of Cotton Will Cause Diversification of Agriculture—A Prosperous Section.

MERCHANTS' & FARMERS' BANK,
MACON, MISS., Aug. 29, 1891.

Your letter of a recent date received. I have given the matter careful investigation and take pleasure in giving you the results, which, I must add, have been a source of gratification to me. What I shall say is, of course, confined to the state and the adjoining and tributary counties of Winston, Neshoba and Kemper, Miss., and Pickens county, Ala. Owing to the stringency in money last year and the consequent low price of cotton, the best class of farmers have carried over from 1,500 to 2,000 bales of cotton. This has, of course, restricted the circulating medium, the funds invested in this cotton as a general thing being loaned by farmers to their neighbors, deposited in bank, &c., and borrowers have

been limited in the amount of money they could obtain, and as a rule are not so much in debt for the year. Bearing in mind now that there is held by the farmers some \$65,000 worth of cotton, and that the cost of raising the crop about to be gathered is the minimum, let us go to the farms and see what the condition is there. Taking an average of my inquiries I find we have 20 per cent. more averaged corn than last year, and a yield per acre of 37 per cent. more. They realize the value of corn; have planted more and cared for it better. The corn crop will be sufficient to supply the home demand and to spare. The acreage in cotton is possibly a little less than last year, and we will probably get the same returns per acre, the only noticeable difference being in the grade, which so far is greatly superior to that of last year. The farmers have paid much more attention to stock and grasses. I find that our leading hardware house in this place has sold three times as many mowers, rakes, &c., as they did last year, and the amount of fodder, hay, and all kinds of provender is at least 200 per cent. more. There is also a marked improvement in the grade of both cows and horses. On my trip through the county I visited a farm which but a year or two ago was used exclusively for cotton, on which there are now 200 milk cows, a large creamery, besides a great many hogs, horses, &c. The gentleman in charge, from Illinois, said to me that it was naturally the finest stock farm that he had ever seen. The lumber interests deserve notice. I have paid out through our bank between \$7,000 and \$10,000 in the last three months for stave factory and sawers of hard wood,—something unknown to us heretofore. In conclusion I will say that the low price of cotton will, I am sure, solve the problem of diversified industries in the South.

R. W. JONES, JR., Cashier.

Business Daily Improving.

EUFAULA NATIONAL BANK,
EUFAULA, ALA., August 29, 1891.

We have made a good average cotton crop, and corn was never better. The price of cotton appears to be tending upward, and it has already put a brighter feature upon the business outlook. Cotton receipts are quite free with us, and business is daily becoming more active, and our people are hopeful of the future.

E. B. YOUNG, Cashier.

Abundant Grain and Cotton Crops and a Bright Future.

CITIZENS' BANK,
DYERSBURG, TENN., August 29, 1891.

Regarding the outlook for our vicinity, our farmers have harvested and marketed an unusually large wheat crop, for which they got good prices, and they have in sight the finest cotton and corn crops they could wish for, and, even with the low prices in view, our section has a bright future, and our business men realize it.

A. R. WOOLEN, Ass't Cashier.

Everybody in Good Financial Condition.

W. C. & L. LANIER,
BANKERS AND MANUFACTURERS,
WEST POINT, GA., Aug. 29, 1891.

We have read some articles on Southern booms that we appreciated, and we regret very much that Northern capitalists have been so easily enticed into some unwise investments they have made. The capitalization of our forests and old fields remote from towns, and attempt at the concentration in great haste of industrial enterprises of every imaginary description, with imported and usually incompetent mechanics and laborers at fabulous wages, resulting in part from extravagant prices for the necessities of these work people. High rents, and the waste from the rush and confusion under such circumstances should have been more carefully considered. "Will these industries, when complete, be properly managed and pay?" should have

been considered with equally as much care. Schemers are not usually close managers. This boom contagion never reached our section, and its collapse has not affected us. Investments here in manufacturing, part of which is Eastern and Northern capital, approximate a million dollars, and these investors are, we think, well pleased, and we know of no investments where conditions were properly considered that have not paid. We have felt the depression in finances, as is the case everywhere likely where much business is carried on. Our corn and cotton crops are good. Merchants and farmers are in a healthy financial condition, and we are hopeful of a rapid recuperation from the dull season the South has passed through. W. C. & L. LANIER.

A Steadily Growing Place.

THE FIRST NATIONAL BANK
OF LAKE CHARLES,
LAKE CHARLES, LA., August 28, 1891.

We have here a town of 5,000 inhabitants, built on Lake Charles, an expansion of the Calcasieu river, and is about 40 miles from the Gulf of Mexico. We have two railroads—the Southern Pacific and the Kansas City, Watkins & Gulf. We have recently put in new ice and electric-light plants. We have a new college, a new public school and new courthouse buildings. A street railway company and a water works company are organizing. We have a new sugar refinery in course of construction, with a daily capacity of 300 tons, which will be operated on the diffusion process. We have two banks, and about 15 lumber and shingle mills tributary. Money invested in a furniture factory would pay well here. Real estate is increasing in value very fast, and the rice crop throughout Southwest Louisiana is immense. A. L. WILLIAMS, Cashier.

A County that Doesn't Know a Farm Mortgage.

BANK OF ALEXANDRIA,
ALEXANDRIA, TENN., August 28, 1891.

This section of Tennessee has not enjoyed more beautiful crops than we now have in many years. While we do not raise cotton, we do raise very fine mules, cattle and hogs. Farmers are very much encouraged, and business in the mercantile line is improving somewhat. Money is not as plentiful as some would like to have it. I have not heard of but two failures in 50 miles of here in six months. Farm mortgages are not known in this part of Tennessee. We have the N. & K. Railroad pushing on to the coal fields of the Cumberland, and finer coal cannot be found than the Cumberland mountain coal. J. F. ROY, Cashier.

Business Steadily Increasing.

FIRST NATIONAL BANK,
GAINESVILLE, FLA., August 27, 1891.

While the cotton crop will probably bring a low price, the orange crop is unusually large in this State and county. The main crops in this county are oranges and vegetables; of the latter we will have a large acreage planted this fall. The phosphate in this county and State are making an increased demand for labor, and the output is bringing in a steady stream of money, which shows up plainly in increase of all kinds of business.

JAS. M. GRAHAM, President.

Best Corn and Small Crops Ever Raised.

AIKEN COUNTY LOAN & SAVINGS BANK,
AIKEN, S. C., August 26, 1891.

At present everything is waiting upon the harvesting of the cotton crop, which will be a large one, even if it does not exceed last years. The money market is tight, but that is not a bad sign, as it shows that there is demand for money and that a great deal has been invested in projects that will make fine returns in the future, for everyone knows the conservative feeling of the people of this section. The man who has worked very hard for his dollar is not apt to put it into bad in-

vestments. But money is not so tight but that those whose credit is good can get what they need at reasonable rates. When the cotton crop is marketed it means money enough to pay off current indebtedness and something to spare. The South has profited by a succession of good crops. If the present one should be as large as last year's it means at low prices a certain amount of money; if much smaller it is more than probable that the advance in prices will counterbalance. This is not all. There has been harvested this year a larger corn crop and a much greater quantity of small crops than ever before, which means that the present and the next cotton crop will be produced with much less expense than usual. Blessed with as fine a country as there is on the earth, with wonderful natural resources, capable of the utmost diversification of crops, it would not surprise us to see this section able before the close of the present century to pay off the present indebtedness of the United States and not feel the strain. We can only say further that we are glad we are "in it."

J. W. ASHHURST, Cashier.

Good Crops and No Financial Troubles.

BARDSTOWN, KY., August 26, 1891.

We are in our section having but little trouble on account of the money crisis. Our people have good crops, and confidence seems to be fully restored.

J. W. MUIR.

Splendid Crops—Easy Money When Crops Have Been Sold.

BANK OF SWEETWATER,
SWEETWATER, TENN., Aug. 26, 1891.

I regard the future prospects for East Tennessee as good. We have made one of the best wheat crops we ever had and the prices are good, and there never has been a better prospect for corn, so you might say the corn is made and our fruit crop is fair, and late potatoes are going to be good; in fact, everything will be all right with our people when we sell our crops; in fact, our people will be in better condition than we have been in years, after we sell our wheat crop, and when our corn and potato crop comes in we will certainly have plenty of money. Our people are marketing their wheat slowly, and that is the reason money is not plenty here now, and another reason is we have not got the money to buy the wheat at once.

JOHN M. JONES.

Wheat, Corn and Oat Crop Never Finer.

GAINESVILLE, GA., August 27, 1891.

There is absolutely no reason for any uneasiness regarding Southern investments. The crops are far above the average, and the wheat, corn, oat and fruit crops never were finer. Speculators have used the feeling of uncertainty regarding all stocks, bonds and commercial collaterals to depress prices, and unscrupulous politicians have preyed upon the ignorant public mind in order to ride into power until the masses are almost crazed upon the subject of cheaper money. I think there is no cause for apprehension, and that the condition, in reality, was never better for Southern progress and advancement.

H. H. DEAN,

Director First National Bank.

Prosperous and Progressive Portsmouth.

BANK OF PORTSMOUTH,
PORTSMOUTH, VA., August 29, 1891.

The lands in this immediate neighborhood are devoted principally to the growth of vegetables for the Northern and Eastern cities. The yield this season has been fully up to the average, whilst the prices have been greatly in advance. The result is, of course, liberal balances in favor of the farmers. The present outlook in the city is most encouraging. Property within the corporate limits is active at prices greater than ever before, whilst the

sale of suburban lots for the purpose of actual improvement is more decided than at any time in our history. We have many woodworking establishments in our midst, with large orders ahead of them; indeed, a spirit of hope and confidence is found on every side. If you are looking for doubt and despondency, there is no occasion to waste your time in coming this way. Our immense oyster business will open on Tuesday, September 1.

J. L. BILISOLY, Cashier.

Business Good and Financial Condition Healthy.

THE LAWRENCE BANK & TRUST CO.,
LAWRENCEBURG, TENN., Aug. 27, 1891.

Business in our section good. Our factories are all running, and at a profitable gait. Our merchants, farmers and people generally are in as healthy condition financially as they have been for years.

J. M. GILMORE, Cashier.

Financial and Business Prospects Very Good.

BANK OF CUMBERLAND GAP,
CUMBERLAND GAP, TENN., Aug. 26, 1891.

We think the financial and business prospects of this section very good. We have good crops, better than for years. The farmers have cultivated more ground than ever before in Powell's valley, and they claim that the yield is better than has ever been known in this section. I have just returned from a visit up the valley, a distance of 40 miles, and I found the farmers were making arrangements for the fall trade. I think, beyond a doubt, times will be good in this section this fall. Money has been very close this summer, but when the crops are disposed of I think we will have plenty of money. This bank was organized September 8, 1890.

J. E. LAUCK, Cashier.

Never in a More Prosperous Condition.

BANK OF THE MONONGAHELA VALLEY,
MORGANTOWN, W. VA., Aug. 26, 1891.

Our part of the country was never in a more prosperous condition. Good crops of all kinds of grain and hay. Our people pay more attention to stock raising, and this season especially has yielded them good profits on all kinds of stock. In fact all kinds of business in this part of the State is good.

E. H. COOMBS, Cashier.

Farmers Jubilant Over Big Crops and Good Prices.

THE DEPOSIT BANK OF GLASGOW,
GLASGOW, KY., August 26, 1891.

The general financial and business prospects of this county (Barren) are most encouraging. Crops are bountiful, and all farm products find ready sale at remunerative prices. The farmers are jubilant and business men are greatly encouraged. Money is easier. We have more than enough to take all desirable paper.

J. RITTER, Cashier.

Big Crops and Better Times.

THE BANK OF NEWPORT,
NEWPORT, ARK., August 25, 1891.

This section of the South had three successive seasons of hard times, the first two having been from very short crops, and the last from very poor prices. We have groaned under the chastisement of hard times, to be sure, but we now feel that it has been a great benefit to us. Some of our farmers, having heretofore found that their crops would grow with but little work or attention, become discouraged and felt like disposing of their lands, and put down the price of course. Others resolved to adopt the means to the circumstances, and have used tact and economy, and as a result we now have one of the largest crops of cotton, corn, hay, vegetables and fruit, made with the least expense, that this country has ever known. It does seem to us that now is the time, of all others, to make investments in this section. Land will probably never be so cheap as at present. The lumber and stave business has been neglected, and in-

vestors could probably make investments now at surprisingly low figures. This opportunity will not last indefinitely, however, as more money has come into this section the past year than for several years previous. We are building in Newport a \$15,000 opera-house, a new brick city hall, two brick business blocks and quite a number of new dwellings. An electric-light plant has just been put in, and, in fact, we never were in such a pleasant frame of mind to welcome newcomers. I have just returned from a trip through the West, from San Diego to Tacoma and Seattle, and must say that I do not believe I was in any place where the opportunity was nearly so good to make paying investments with a reasonably small amount of money as right here in this section of the South.

R. M. JOHNSON, Cashier.

Outlook Better Than for Fifteen Years.

BOURBON BANK,
PARIS, KY., August 26, 1891.

As to the financial and business prospects of our section I would say, all things considered, the outlook for the farmer is better than it has been in the last 15 years, and when this class of our people are prosperous it means prosperity for the whole.

B. WOODFORD, Cashier.

Never Before has the Outlook Been so Bright.

BANK OF ADAIRVILLE,
ADAIRVILLE, KY., August 26, 1891.

Never before in this history of this section has the outlook been so bright or the opportunities for the advantageous investment of capital so inviting as at present. This is exclusively an agricultural county with extraordinary fertility of soil, producing bountiful harvests of all the cereals and grasses, together with large and heavy crops of tobacco. The people are educated and refined, as much so as any in the State, with all the hospitality characteristic of Kentuckians. There is great need of more capital to erect mills, elevators and tobacco manufactories, and investors locating with these ends in view would find ready and safe employment for their money. The balminess of our climate, the fertility and fruitfulness of our soil, the wealth and culture of our people invite capitalists to locate among us, whether they come from the North or the South, or of whatever political faith or religious creed.

EDWIN R. MOORE, Cashier.

A Bright Financial and Business Outlook.

BANK OF BATESVILLE,
BATESVILLE, ARK., August 25, 1891.

The financial and business outlook for this section of country is bright in all things, save the low price of cotton, which will be offset by the extra yield, which promises to average better than for years past. We think the McKinley bill largely responsible for the low price of cotton, as it shuts out the goods, for the manufacture of which foreigners have heretofore bought our cotton; but we are prosperous in spite of it, and we honestly believe that there is no State in the Union that offers greater advantages to investors than Arkansas, and no section with greater advantages than the White river valley. You deserve the greatest credit for your untiring efforts in behalf of the South.

JNO. Q. WOLF, Asst. Cashier.

Factories Busy and Everybody Employed.

BRISTOL, TENN., August 22, 1891.

Recognizing your journal as a strong and influential advocate of the South, I venture to offer my testimony to correct a false impression that seems to exist in the minds of a number of people in the Eastern States, to the effect that all the towns in the South are at a standstill or totally wrecked. The mistake is, classing the South as a whole with a few badly selected and badly managed new places, which would have failed under the most favorable circumstances in any country. The

South, according to population, has as many solid prosperous cities and smaller towns as any new country, and for any one to suppose that all the life and vitality of the progressive towns of the South are exploded is a great mistake, and to be convinced of this fact they have only to visit places that have natural advantages, and which have been improved with the wealth accumulated at these places, and they will find the factories busy and every laborer and mechanic that wants to work employed. On every street of any importance he will see new buildings going up, and not a vacant house to be found. This is true of Bristol, Tenn., and equally so of all other cities that ever enjoyed the confidence of well informed business men. It is true money matters have been close, but banks have been able to meet the wants of manufacturers and commercial business men. The speculator who invested his all in the first payment on real estate is pressed, and many of this class will go to the wall, but the South will prosper all the same. No country with such wonderful resources can stand still, since the eye of the capitalist has been directed to such fruitful fields for investment. Wishing the MANUFACTURERS' RECORD that success which it so richly deserves, I am,

Yours very truly,

A. D. REYNOLDS.

A State Without A Bank Failure—No Bad Debts.

BANK OF GREENWOOD,
GREENWOOD, MISS., August 27, 1891.

Notwithstanding the panic last fall and subsequent low price of cotton, we collected all the money we had out, and I believe it is conceded that our cotton crop saved the country from financial ruin. I would call your attention to the fact that we did not have one single bank failure in the State of Mississippi. Our people have used too much corn this season, owing to short crop last year, but will not have to do so another season, as corn crop is made, and if cotton brings anything in the way of a fair price, everybody will be in good shape next year. Cotton crop is only an average one; too much weed, not enough fruit.

E. R. MCSHANE, Cashier.

The Solid South.

Messrs. John A. Hambleton & Co., bankers, of Baltimore, in their last weekly financial letter in referring to the South, say:

During the past year, which has been one of depression in all business interests, the South has had its share of reverses, but has not, as has been implied, been more seriously affected than other sections. The development of Southern industries and the excitement engendered by the season of great activity and improvement which the South has enjoyed for several years past naturally induced the creation of many speculative enterprises, which were established upon a doubtful basis and with insufficient capital. Such enterprises have in many cases succumbed to the pressure of adversity, but the legitimate industries and enterprises, founded upon a substantial basis, have, we claim, been maintained equally as well, if not better than in other sections. Defaults have been rare and failures comparatively few. That the South has been prosperous, even under adverse circumstances, is shown by the increase in the traffic and earnings of its railways and by the large increase in its exports.

The South possesses superior advantages, and its industries and enterprises will continue to command the attention of capitalists. Its resources are boundless, and, in comparison with other localities, its indebtedness is small.

The price of cotton is low, but this is partly compensated for by the better prices for grain, which has been produced in immense quantities, and by an enormous crop of vegetables and fruit. It is not probable that cotton will remain so near the cost of production, but more than likely that with returning prosperity the surplus will disappear and prices improve.

NORFOLK'S SOLID GROWTH.

[Special Cor. MANUFACTURERS' RECORD.]

NORFOLK, VA., August 29th, 1891.

The financial disturbances that have affected all industries and all commercial transactions in every part of the world it might reasonably be concluded, have given a serious blow to the progress of Norfolk, and have delayed the fulfilment of the predictions made in a letter written by me late last winter, which the MANUFACTURERS' RECORD published. After nearly six months' absence, your correspondent came here to spend several days in examining the conditions now existing and the outlook for the immediate future. It was an agreeable surprise to find that this city was much more than "holding its own" in the face of all the troubles that have disturbed the world's financial centers, and that "peace dwelt within her walls and prosperity within," not "her palaces," for she has none, but in her banks, her manufactories, her stores, her commerce and her trade circles, her commission business of every kind, and her many local industries, whether small or great.

While the world-wide financial disturbance has somewhat retarded the prosecution of the newer enterprises on the scale they had been planned, yet, as a whole the city has prospered and is prospering, and in all commercial and trade circles there is a confidence in the solidity of what has been accomplished, and a determination to make greater advances in the early future, that cannot but inspire the confidence of outside investors and lead to the early prosecution by them of many important enterprises that were planned before the universal panic caused a general suspension of all new undertakings.

A drive through the city and its suburbs is all that is needed to convince the most incredulous pessimist that population is increasing, that established industries are doing well and that there is a general business activity not at all consistent with a period of hard times. Everywhere are to be seen residences either newly finished and occupied, or in various stages of construction, that indicate that this is a city of homes, and of a stable rather than a changing population. It is also noticeable that the great majority of these new structures are not cheap tenements for rent to the lowest order of wage earners, but are neat, substantial brick or frame cottages that compare favorably in style and comfort with those of the best manufacturing towns of New England. Nor are these built on speculation by land companies, but either by those who are to occupy them or else by conservative capitalists in response to a steady demand for this class of rents. There are few, if any, under construction for this purpose that have not been rented to responsible parties who are anxious to occupy them at once, and local real estate agents are agreed that it is impossible to find houses for all the would-be tenants applying for them.

In a circular recently issued by the Business Men's Association of this city, it was stated that during the current year fully a thousand residences and stores will have been built here at an average cost of \$2,000 each, or a total expenditure of \$2,000,000. An observant stranger, after a tour through all the streets, will conclude that this estimate is lower than the facts would warrant, while, if all the building going on at Lambert's Point and other suburbs that will eventually be a part of Norfolk, is taken into account, at least 50 per cent. should be added to the aggregate of number and cost.

The best official evidence of the solidity of Norfolk's growth is the assessment recently completed. This is made by law once in five years, and taxes laid during each intermediate period are based upon

it. This latest assessment shows an increase in property values of \$7,618,060, divided as follows: Total increase of taxable values in four old wards in last five years, \$4,253,879; increased by and in two new wards annexed in last five years, \$3,354,841.

Among the many buildings now under construction, the market-house is the most noteworthy. Centrally located, of fine proportions, and admirably designed to accommodate every class of market business, it will, when finished, rank with the best in any city on the Atlantic coast, Philadelphia and New York not excepted. It will be accepted by visitors as a proof of the enterprise and public spirit of Norfolk, while the removal of the old tumble-down shanties that for years served as market houses, will open up a fine broad plaza, extending from Main street to the water's edge, that will be the pride of every citizen and the admiration of every stranger.

In time Norfolk will have a new post-office and custom-house building, the business of each having increased to such an extent that the old building is much too small for economic and convenient transaction. But it is to be hoped that the national authorities, upon whom shall devolve the final decision, will not accept the site recently selected by a government official. It is in all respects a bad location, while choice sites, in every sense suitable were available, any one of which would have satisfied the public. Seventy-five per cent. of the taxpayers of Norfolk are opposed to this selection, and the wonder is that any except those who benefit by the sale should favor it.

The improvements made in Norfolk's suburbs during the last six months are even more noteworthy than those in the heart of the city. The streets that have been graded, the new buildings that have been finished, the industries that have been established, are all signs of the confidence felt by capitalists at home and abroad in Norfolk's future. The merchantmen of all the nations of civilization that have for years sought this port for cargoes have carried its fame to foreign lands, while the great railroad systems that have made their terminals at this splendid harbor have heralded its advantages and prospects through all the great interior. Before many of the older residents realized what this city was destined to be, strangers foresaw it and came here to make investments to be followed by improvements that would make them profitable. There were some citizens equally wise, who took time by the forelock and secured properties whose advancing values have made them wealthy. And there were young, ambitious men, with large capital in brains and energy, but without available cash assets, who employed their talents in advancing this city's interests, and by so doing have acquired prominent influence, and have accumulated considerable wealth. These several classes are well represented in the Business Men's Association, the Chamber of Commerce and the Real Estate Exchange, while the Daily Virginian is the tireless leader and exponent of Norfolk's progress. Added to these powerful factors are the railroads that bring from the South and West their vast contributions to the commerce of the port. The immense coal piers built by the Norfolk & Western at Lambert's Point for the rapid delivery of Pocahontas coal and coke have developed a trade that, beginning in 1886 with shipments of 504,153 tons, has increased annually, until in 1890 it amounted to 1,150,000 tons, and this year, if kept up to the rate thus far maintained, will amount to 1,500,000 tons. The same company is now handling enormous quantities of grain, and at this writing has 533 cars on its tracks whose contents are to be put aboard European ships. For the better

handling of the exports brought here by that road, the North American Transport Co., of 29 Broadway, New York, has opened an office in the Han Building, Main street, in charge of James Haughton, agent, with W. C. Neville in charge of the freight department. This company will conduct a general steamship and ship brokerage business, and will have regular sailings for United Kingdom and Continental ports from the wharves of the Norfolk & Western Railroad, which company will issue through bills of lading in connection with the Transport Co.'s line from all points West, Northwest and South. The magnificent piers of the Norfolk & Western Railroad, and their immense new warehouse at Lambert's Point, supply ample facilities for storage, which will be available to all shippers by this new line, thus affording protection to all cargoes awaiting shipment.

All the other railroads running in at Norfolk are increasing the volume of her commerce. Major J. M. Winder, of Raleigh, general manager of the Seaboard Air Line System in the Carolinas, stated a few days since that from the territory thus far covered by the construction and operation of the Georgia, Carolina & Northern Railroad this city would receive this season at least 75,000 bales of cotton, which would all be new business.

At Lambert's Point, and from thence through the Atlantic City ward (once a suburb, but now a part of Norfolk), there are wonderful improvements in progress. Many of these were described in Mr. Grasty's fine letter published early last spring in the MANUFACTURERS' RECORD, and no more need be said of them than that all the plans he then referred to have been prosecuted with great diligence and energy and that enough has been accomplished to show the excellent judgment and taste that conceived this great improvement and is controlling its execution.

There is a new enterprise on the waterfront adjoining Fort Norfolk and immediately opposite and only half a mile from the docks and storehouses of the Norfolk & Carolina Railroad, the Norfolk terminus of the Atlantic Coast Line, which must be noted. Eight years ago Gen. V. D. Groner bought for \$7,500 a tract of land there with a shore front of 500 feet and a depth of about 1,800 feet. From the land he has this summer built a pier some 1,500 feet long with a V-shaped end, on the forks of which he has built oyster-houses. These have been rented to two of the most extensive oyster shipping firms of Boston, H. & R. Atwood and D. Atwood & Co. These two firms will annually buy and ship oysters enough to accumulate 350,000 bushels of shells. The latter will be used in reclaiming the land belonging to General Groner under the law of riparian rights. It will take several years to do this, but when it shall be completed General Groner will have about 26 acres of land, with a wharf space nearly a mile in extent, and a property worth at the lowest conservative estimate \$300,000. It is contemplated, when the work is finished, to cover this tract with manufacturing establishments.

Another Norfolk enterprise that is attracting much notice, both here and in more distant places, is the laying out of a summer and winter resort at Willoughby Spit. The management of this enterprise is with the real estate firm of Smith & Pannill, and could not have been in better hands. Willoughby Spit is a peninsula, on one side of which is Chesapeake and on the other Willoughby bay. In front of its line of prolongation is the Rip Raps, and still further away is Old Point Comfort, with its noted fortress and hotels. The United States government has taken a large tract of land at the extreme of this spit for fortifications and a torpedo station. All the remainder has been purchased by

the projectors of this enterprise and laid out in broad avenues, with intersecting streets and numerous lots and villa sites. A splendid location has been set apart for hotel purposes, where all the rooms will face the water. From all sides of every cottage and villa the water can be seen. It has one decided advantage over other seaside resorts, in that it can never be made uncomfortable by a land breeze laden with the heat radiating from the areas over which it has swept. The plans of the purchasers were kept quiet until they were entirely perfected. When publicity was given to them an immediate call for lots arose from citizens of Norfolk and of more distant places who had enjoyed its bathing, fishing and shooting, together with its refreshing breezes, long before any one thought of buying Willoughby Spit and supplementing nature's attractions by all those that modern fashion requires for a seaside resort. A great and well-appointed hotel at this place will be as well patronized and as profitable to its owners as is the Hygieia at Fortress Monroe, for the location has numerous advantages and attractions that the latter lacks. It will also be of vast benefit to Norfolk, for this addition to the number of her delightful seaside resorts will largely swell the tide of tourist and pleasure visitors, will add much to the city's business and increase the number of permanent residents. A commercial city cannot have too many attractive seaside resorts in its immediate vicinity. They all contribute to its business and financial well-being; they afford opportunities for health and recreation to thousands who cannot afford to go long distances or be away for more than a day or two from their homes. The growth of Norfolk towards Sewell's Point and Willoughby Spit will be accelerated by this enterprise.

The grain traffic of Norfolk is assuming large proportions this season. During the past 14 days ships have sailed from here for Europe carrying 282,000 bushels of wheat, and I was assured by Mr. Haughton, agent of the North American Transport Co., that within another 15 days enough more would be put aboard ships now on their way here to make a total of at least half a million bushels in a month's time. Capt. N. M. Osborn, general agent of the transportation department of the Norfolk & Western Railroad, confirmed this statement, and said that a floating elevator would reach here within a day or two from New York, and that in a clear day the company would be able to put some 75,000 to 80,000 bushels on shipboard. Referring to their coal business, Captain Osborn said they could readily handle 350 cars in a day of twelve hours without hindrance to the disposition of other freights. Besides grain they were now receiving great quantities of Western flour and lard for export. The new connection at Norton was adding materially to the company's general business. The Louisville & Nashville had already delivered to the Norfolk & Western as many as 130 cars a day, and as the season advanced that and the business of all parts of the system would be materially increased. The business of July and August would, he thought, when the figures were compiled, show a gain of from 50 to 60 per cent. over the corresponding period of last year.

Norfolk has nine banks with \$1,000,000 capital and \$5,000,000 deposits. It needs and ought to have some large moneyed institution that would loan a part of its funds, on long time, on real estate securities. If there were in Norfolk one or two savings banks conducted on the principles and by the methods that prevail in New England, many new enterprises would be fostered and many old ones enlarged, and this without drawing any money from the surplus funds of the banks of discount and exchange. There has been for some time a desire for such an institution, the need for which is felt more and more as the general business of the community increases in volume.

FLORIDA PHOSPHATES.

Active Work at the Sterling Mines—Work Progressing on New Plants—Land Sales—New Companies to Mine Navigable Waters Under State Royalty.

[Special Cor. MANUFACTURERS' RECORD.]
BARTOW, FLA., August 29, 1891.

Mr. B. F. Bouchellon, one of the superintendents of the Sterling Phosphate Co.'s mine near Pemberton Ferry, reports to the Ocala Banner that 200 men are now employed at that mine, and that five to six car-loads of phosphate rock are mined and shipped daily, a car-load being 20 tons; that is equal to 100 or 120 tons, or, say half a ton per day for each man employed. That is not bad when it is considered that this is a hard-rock mine, and consequently very little of the work can be performed by machinery.

WORK ON ALL NEW PLANTS

now in process of erection is being pushed with great vigor, and some of them are approaching completion. There has not been a day in the past four months on which one or more carloads of phosphate machinery might not have been seen at the freight depot of the South Florida Railroad, in Bartow. The Phosphoria company has been greatly delayed in the completion of its plant by the failure of the railroad company to finish the branch road over which the heavy machinery for dredging, etc., was to be transported; but track-laying is now progressing, and in a very short time the road will be ready to deliver the machinery and bring out phosphate.

SOME IMPORTANT SALES

of phosphate land have been made lately. Mr. William Tudor, of Boston, has purchased 640 acres in Marion and Levy counties, for which, it is reported, he paid "something over \$30,000." The mine is to be called "Elmwood," and quite a force of men are already at work "stripping" and getting in shape to mine and ship extensively.

Messrs. H. L. Davis, W. M. Wilhoite and W. J. Walsh, composing the Tennessee & Florida Land Co., have bought 107 acres of phosphate land near Bartow, from Whitley and Arnold, of this city. Mr. Davis talks enthusiastically of his purchase to a reporter for The Chattanooga News. From that paper I quote as follows: "In an interview with Mr. Davis, he said, among other things:

"There is a very large field of phosphate in that State. It is of two kinds; one is rock and the other pebbles. The rock lies north of Lake Hancock, and it varies in value.

"The pebble is more uniform, running from 69 to 70 per cent. of the phosphate, and various analyses show that ours does not contain but 2 per cent. of iron and alumina. The rock often contains 7 per cent. It will not be received in England if it contains over 5 per cent. of these metals.

"Another feature in favor of the pebble phosphate is that it does not have to be either blasted or crushed. When washed it is ready for market. * * * We found it at an average depth of 4½ feet, and the vein or deposit 8 feet thick. We estimate that it will yield 12,000 tons to the acre and that we have of our own at this point 1,284,000 tons. It is worth \$7.00 a ton, but counting it at \$5.00 we have \$5,420,000 worth of it, which to mine, wash and load will cost us \$1.00 a ton."

Mr. Davis' estimate, if he has been correctly reported, is much too high; but suppose his land yields but 5,000 tons per acre at a profit of \$4.00 per ton; certainly \$20,000 per acre ought to be a very satisfactory return for land which probably did not cost him over \$100.

THE BOARD OF PHOSPHATE COMMISSIONERS has granted exclusive rights to individuals and companies to mine phosphates in the following navigable waters of the State: Lakes Tsalo Apopka, (Citrus county,) Hancock, Parker, Bonny, Gibson, Scott, Banana and Hollingsworth, (Polk county.) Also the Alafia, Peace, Manatee, Miakka, Santa Fe, Withlacoochee and Calasooatchie rivers, and Black and Twelve Mile creeks.

Parties claiming riparian or preferred rights to mining contracts in above waters, have been notified by the Board to present their claims within 60 days, showing "what particular riparian rights are claimed, or what preparations have been made to mine in good faith." It is not expected that many such claims will be presented except in cases where two or more companies may have begun the construction of plants to work the same deposit, if any such cases exist.

JAY SHRADER.

BRUNSWICK, GA., is becoming a strong competitor with Savannah in the naval stores trade. The chief business in this line at the former city is done by the Downing Co., at the head of which is Mr. C. Downing, Jr. This company has recently built on its own docks a large warehouse for the storage of spirits of turpentine, and has begun the construction of another for its general business. The Brunswick Times furnishes the following figures illustrative of the growth of this trade: "The number of farms from which this product is shipped to Brunswick is about 100, covering a vast territory of thousands of acres of the best and most luxuriant pine forest in the State. These 100 farms represent from 1,500 to 1,800 crops, and about 15,000,000 boxes, and give employment to 3,000 or 4,000 men. The number of barrels of rosin received in Brunswick from January 1, 1891, to July 31, 1891, was 81,845. The number of barrels spirits turpentine received during that time was 24,835. More than 4,000 freight cars are required every year to bring in the rosin and spirits turpentine from the farms in the interior to the company's wharf in Brunswick, and haul goods and supplies to its customers. It requires at least sixty vessels and another thousand cars to handle the naval stores and merchandise. Some idea may be formed of the extensive nature of the business done by this one firm from the fact that if the cars used by them for the transportation during one year were all coupled together on the track they would make a solid train 32 miles in length. The vessels chartered to carry away naval stores would make a fleet of 60 ships all bound for different parts of the globe freighted with naval stores from the Downing Co."

THE Rio Grande valley of Texas is pronounced by Mr. Walter T. Forbes, of Atlanta, Ga., a fine field for the production of ramie. On his way home from Mexico, where he has been superintending the creation of an immense plant for the manufacture of the ramie fibre, he told the El Paso Times reporter that a mill producing 500 pounds of fiber per day can be built for \$5,000; that the cost of its preparation for sale need not exceed three cents a pound, and that it would command 30 cents a pound in the world's markets.

PREPARATORY to building the large cotton mill at Camden, S. C., the company has opened a brick-yard on its property. The A machine of 16,000 daily capacity and a 30 horse-power engine are kept busy with a sufficient complement of hands, and by the 20th of this month at the latest it is expected that a kiln of 100,000 bricks will have been burned. Before undertaking brick making the company had their clay thoroughly tested, and found it "equal to the be"

NORFOLK, VA.

THE GREAT SOUTHERN SEAPORT.

Attention of manufacturers and others seeking investment or establishment in the South is called to the following facts:

Norfolk has the most magnificent natural harbor of the Atlantic Coast, having no bar to block its entrance, being within 25 miles of the ocean, sheltered from all vicissitudes of weather, always free from ice, with sufficient depth of water for the deepest draft vessels.

Hampton Roads, at the confluence of the James and Elizabeth rivers with the Chesapeake bay, is easy of access, navigable for vessels of any size or draft.

It has been designated by Congress as the rendezvous for the navies of the world in 1892-'93.

A 26-foot channel, well marked with buoys and light houses, leads to the wharves of Norfolk, and above the city to the Navy-yard.

Seven broad-gauge and two narrow-gauge railroads, controlling an aggregate of over 17,000 miles, put Norfolk in connection with all the points reached by railroads in this country, and two

The water supply is derived from large lakes of spring water seven miles distant, good not only for household use, but admirably adapted for manufacturing purposes, being absolutely free from all those substances that corrode boilers.

The climate, tempered by the proximity of the Gulf Stream, is mild. There is hardly ever ice or snow to interfere with out-door work or exercise.

The city is lighted with electric lights, and has as fine a fire and police department as any in the country.

All denominations are well represented in churches.

There are two good hospitals, one in charge of the Sisters of Charity, and the other under the Protestant organization of the city.

Educational advantages are excellent, there being a thorough system of public schools, together with numerous private seminaries for both sexes.

There are two good theatres, at which the best companies stop on their pilgrimages from the North to the South.

This is one of the largest pine lumber markets in the South; 150,000,000 feet were shipped in 1890.

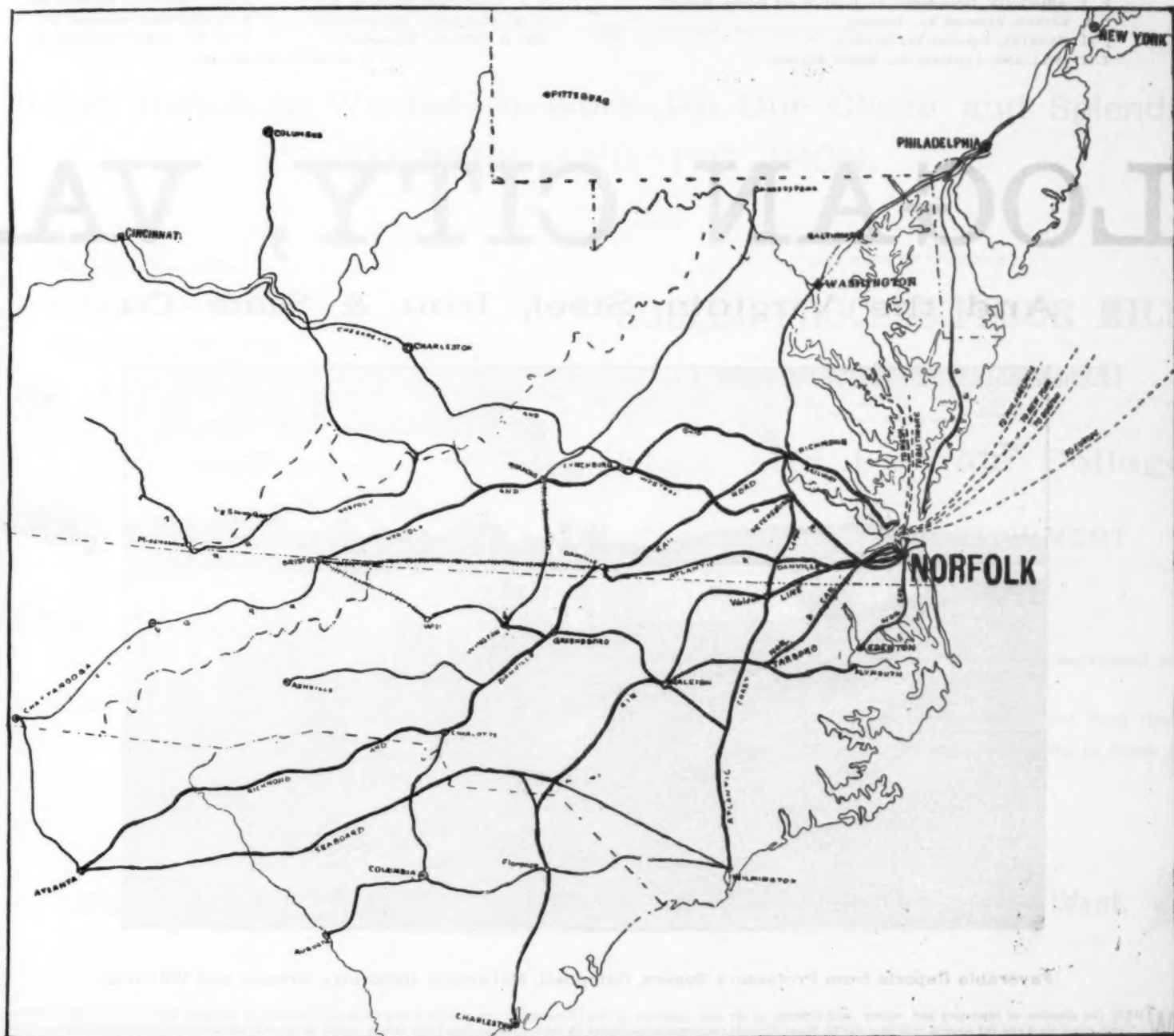
The best bituminous coal and coke are supplied by the C. & O. R. R. and N. & W. R. R.

Pig iron is delivered here by these two railroads.

Roller iron and all of its products can be promptly and cheaply freighted by water to all of the leading seaports.

600,000 bales of cotton are annually marketed here, which makes this the most desirable point for the manufacture of cotton goods in the United States, superior to inland towns throughout the cotton belt, because a factory located in these is dependent on the local product marketed in three or four months, after which it has to draw from distant points or carry a sufficient stock for the year, or if the quality or grade in the locality is unsuitable, it is subjected to the expense of freight from distant points; but Norfolk being a large cotton market, not only furnishes an assortment of grades and quality, but enables the manufacturer to purchase his stock all the year.

It is superior to other seaports from its accessibility to New York, Boston and other markets or such supplies as the manufacturer frequently needs on short notice, while its railroad lines to the interior distribute goods to all points.



canals connect with the Sounds through the Carolinas.

First-class steamship lines ply to Boston, Providence, New York, Philadelphia, Baltimore, Washington, Richmond and other points on the Coast and Sounds.

Norfolk is within 20 hours of Boston by rail and 40 by water.

12 hours of New York by rail and 21 by water.

10 hours of Philadelphia by rail and 18 by water.

8 hours of Baltimore by rail and 12 by water.

7 hours of Washington by rail and 12 by water.

2½ hours of Richmond by rail.

23 hours of Cincinnati, and 34 hours of Chicago and St. Louis by rail.

A regular line of passenger and freight steamships ply to the Brazilian ports, and steamships, chartered mostly for the carriage of freight, ply to Liverpool and other European ports.

In 1883 the aggregate trade of Norfolk was placed at \$38,200,436, while five years later, in 1888, it had risen to \$65,011,656; in 1889 it increased to \$75,000,000, and in 1890 to \$100,000,000. The vessel tonnage of Norfolk in 1870 was 13,502 tons, cargoes valued at \$886,594; in 1880 it increased to 103,608 tons, valued at \$11,116,595; in 1887, 257,884 tons, valued at \$14,714,404; for the year 1890 the tonnage reached 582,846, valued at \$15,197,095.

It will be hard to find a parallel case in this country in two decades showing an increase of tonnage from 13,502 tons in 1870, valued at \$886,594, to 582,846 tons in 1890, valued at \$15,197,095.

The population of Norfolk, including Portsmouth, Berkley and other suburbs, is 70,000; the increase within the city limits has been 61 per cent. in the last ten years.

This increase, with the growth of business and enhancement of value in property of all kinds, is turning the attention of capitalists and investors to this point.

The City of Norfolk has a complete system of sewerage and is well paved.

The healthfulness of the climate, as exhibited by the death rate, is not surpassed by any city in the country, the percentage being in 1890 16.90 to the 1,000.

In addition to the manufacture of cotton and iron, there is at Norfolk opportunity for profitable manufacture of furniture and all articles made of wood, such as ash, oak, pine, poplar cedar, cypress, juniper, gum, and for the manufacture of safes, stoves, hardware, sash, door and blinds, etc.

The cost of labor ranges from \$1 to \$1.50 per day for unskilled men, and \$2 to \$3 for skilled men; females 50 cents to 75 cents a day unskilled, and 75 cents to \$2 a day for skilled; boys 33 cents to \$1 per day; girls 25 cents to \$1.25 per day.

The above quotations are for white labor.

Unskilled negro labor can be employed at 80 cents to \$1 for men and 50 cents for women.

Norfolk has been exempt from those labor troubles and strikes which have characterized Northern manufacturing cities.

The surrounding country being the great vegetable-growing section of the seaboard, and the rivers and bays being filled with the finest fish and oysters, make living cheap and healthy.

Although in banking facilities Norfolk is fairly well supplied, there being nine banks with an aggregate capital of about \$1,000,000 and aggregate deposits of about \$3,000,000, there is, however, a good opening for another bank.

Norfolk offers a field for the establishment of jobbing houses in dry goods, boots, shoes, hats, caps, notions, drugs, tinware and all other kinds, excepting wholesale groceries, in which she is well supplied.

The country lying to the southward west of Norfolk furnishes the markets to which goods from here are distributed in exchange for cotton, corn, wheat, peanuts and other crops.

The NORFOLK INDUSTRIAL DEVELOPMENT CO. has been organized for the purpose of furnishing information and assisting the establishment of manufacturing enterprises.

Free sites can be obtained on the railroad lines around the city, and reasonable subscriptions will be made to the stock of manufacturing enterprises, provided they are meritorious, but no proposition will be entertained from any but bona fide concerns, using good machinery and stocked on a business-like basis.

Capital invested in machinery is exempted from taxation for ten years, and will probably always continue so.

For further particulars, address

WALTER F. IRVINE,

SECRETARY NORFOLK INDUSTRIAL DEVELOPMENT CO.

VIRGINIA IN THE LEAD!

VIRGINIA STEEL, IRON & SLATE CO., Richmond, Va.

Capital \$2,000,000, in Shares of \$100 each, par value,

Chartered under the laws of Virginia.

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LOGAN CITY, VA.

And the Virginia Steel, Iron & Slate Co.



Favorable Reports from Professors Rogers, Campbell, McDonald, Hotchkiss, Procter and Williams.

WHEN the attention of capitalists and others was directed to the vast resources of the South, some years ago, the general rush then was for North Alabama; afterwards the claims of North Georgia, North Carolina and East Tennessee commanded notice, but now "Old Virginia" has the lead, and in the heart of Virginia's Mineral or Piedmont Section is LOGAN CITY, on the borders of the counties of Albemarle, Nelson, Buckingham and Fluvanna.

LOGAN CITY is so situated that the numerous leads, veins and deposits of steel-making ores, gold and copper ores, slate and soapstone, limestone and manganese and other valuable minerals are on every side, in every direction, and near at hand. Nature has wondrously favored this place as a location for furnaces, ferro manganese works, slate and stone works, woodworking plants, factories, lumber mills, woolen mills and other mills and works, which altogether would make Logan City a great city of diversified industries. The different works could defy competition and would pay handsome profits; and the shares of the Virginia Steel, Iron and Slate Company, of Richmond, Va., would become valuable. Eminent geologists and mining experts have visited and examined the mineral section and leads of ores near Logan City, and their favorable reports are printed in the prospectus of the company, which, besides official statements, reports, analyses of ores, etc., contains a number of views photographed from different points. The capital of the

Company is two million dollars (\$2,000,000), in shares of \$100 each, and that every two shares carry a free lot bonus; and every twenty shares (\$2,000) will carry a villa site (not less than one-half acre) in addition to ten lots in Logan City.

The payments for shares are easy, namely, five dollars at time of subscription, and not more than ten dollars per share is to be paid at each assessment, and assessments in no case to be made oftener than once a month. About 4,000 acres are suitable for a residence and business city, and the balance of the properties which have been secured (about fifteen thousand acres) are selected mineral tracts. No place in the South offers better advantages for investors, manufacturers, etc., than Logan City, and no company has better or brighter prospects before it than the Virginia Steel, Iron & Slate Company. Send for a prospectus to Richmond, Va., and be convinced. Free sites and other privileges will be granted to manufacturers and others who will establish works and industries at Logan City.

In the prospectus will be found a highly favorable report from the pen of Prof. John E. Procter, Chief State Geologist of Kentucky, and a most practical report from the practical and experienced mining expert, Thos. P. Williams, M. E., who has had nearly forty years' experience in the mining and geological world.

WRITE FOR ANY PARTICULARS TO THE

VIRGINIA STEEL, IRON & SLATE CO., - RICHMOND, VA

LAWRENCEBURG, TENN.

A Coming Residence and Industrial City, Educational
Center and Health Resort.

Small Industries Wanted to Work Up Our Cheap and Splendid
TIMBERS AND PIG IRON.

No place like it for
FURNITURE FACTORIES,
CARRIAGE WORKS,
CARRIAGE AND WAGON TIMBERS,
AGRICULTURAL IMPLEMENT WORKS,
CHAIR FACTORY,
BARREL FACTORY,
TOOTHPICK FACTORY,
WOODEN PIPE FACTORY.
ANYTHING OF WOOD.
Or
MACHINE SHOP,
FOUNDRY,
Or ANYTHING OF IRON.

LAST WEEK WE LOCATED A

ROLLER PROCESS FLOUR MILL,

A GOOD WOODWORKING ESTABLISHMENT

—AND A—

Male and Female College.

A CANNING ESTABLISHMENT

Is promised for next fall.

Every person who visits Lawrenceburg is impressed with
advantages of its location.

Not a wheel has stopped during the recent hard times.
Our factories are all making money, and there is room for
many more.

SMALL INDUSTRIES--DIVERSIFIED INDUSTRIES, That is What We Want.

Some Excellent Investments can be Made in Lawrence
County Timber and Mineral Lands.

ADDRESS

V. S. PEASE, Secretary,

Nashville, Tenn.

THE LAWRENCEBURG LAND & MINERAL CO.

Or Room 63, 185 Dearborn St., Chicago, Ill.

Lawrenceburg, Tenn

The Winston Land & Improvement Company.

Charter granted by Act of Legislature, Session of 1887. Ratified March 4, 1887, Chapter 82.

Present Capital Stock \$125,000. All Subscribed.

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THE COMPANY OWNS THE NEW TOWNSITE OF

NORTH WILKESBORO,

NORTH CAROLINA,

Consisting of 984 acres, and also owns 4,100 acres of Mineral and Timber Lands in Wilkes County, which property is now being developed.

Thirty-five buildings already on the townsite.

Ten miles of streets graded.

Manufacturing sites will be donated and stock subscribed to such legitimate enterprises as may be advantageously located here.

North Wilkesboro, 75 miles west of Winston-Salem, on the Northwestern North Carolina Railroad, is the most important trading point between Winston-Salem and Bristol,

Tenn., and is in the center of the great undeveloped mineral and timber district of Northwestern North Carolina.

Her climate is of unsurpassed salubrity and healthfulness. Fresh water and mineral springs abound, and the 328 miles of water courses in Wilkes County furnish a water power of almost incalculable magnitude.

Home seekers, health seekers, and wood and iron manufacturers, will do well to investigate North Wilkesboro's advantages.

PLATS, PRICES AND ANY DESIRED INFORMATION PROMPTLY FURNISHED ON APPLICATION TO

W. F. TROGDON, Secretary and Treasurer,

NORTH WILKESBORO, N. C.

ALEX. A. ARTHUR, General Manager.

E. E. MALCOLM, Assistant General Manager.

THE American Association, Limited.

Capital - - \$2,000,000.

Owners of Ninety-six Thousand Acres of Land in the Immediate Vicinity of Cumberland Gap, containing COAL, IRON, MINERAL PAINTS, CLAYS, ZINC, LEAD, TIMBER and BARK, SANDSTONE and LIMESTONE, MARBLE, CEMENT ROCK, CHALYBEATE, SULPHUR and FREE-STONE SPRINGS.


The American Association, Limited, is a foreign corporation, having as shareholders the most prominent and best known capitalists of England, Scotland, France and the United States. It is the leading spirit and parent organization of the various companies operating in and around Middlesborough, Kentucky, and was the originator of the development of that giant young Industrial City and of its many subsidiary companies. It also built and controls the Knoxville, Cumberland Gap & Louisville Railroad, 73 miles long, including

THE GREAT TUNNEL THROUGH CUMBERLAND MOUNTAIN.

Also the Middlesborough Belt Railroad, 26 miles long, and with its capital it is developing and building Cumberland Gap City and surrounding country. It will

LEASE ON ROYALTIES

Its Coal, Iron, Clay, Timber and Quarry Privileges. It will rent cleared farms on reasonable terms. It will sell or lease lands suitable for manufacturing industries of all kinds.

 For Illustrated Books, Maps, Plats, Forms of Lease, Particulars as to Royalties, Rents, Prices and all other information, address

ALEX A. ARTHUR, . or

E. E. MALCOLM,

General Manager.

Assistant General Manager.

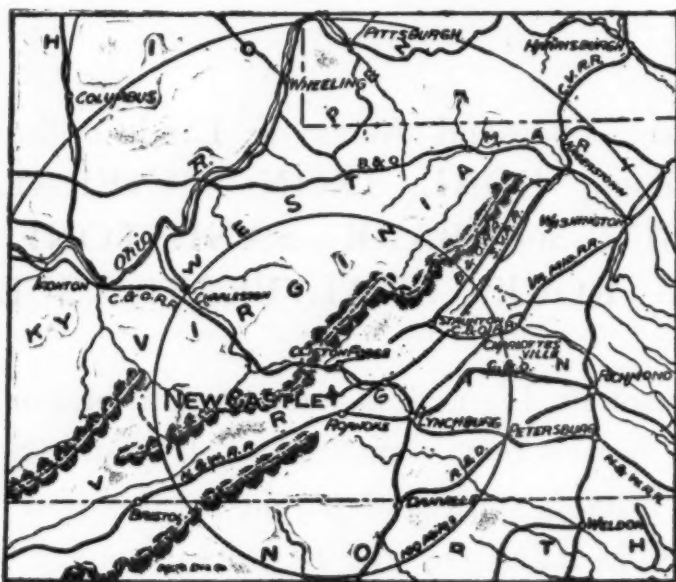
MIDDLESBOROUGH, KENTUCKY.

NEW CASTLE, ^{Craig}County, VA.

• THE IRON BONANZA, •

Convenient to Fuel Supply.

*A City of Immense
Possibilities without
a Rival in all that
goes to Create
Wealth and Power.*



*A Home for Invalids
in which to
Lengthen out their
Lives, and for all
to be and Remain
Healthy & Happy.*

PARADISE OF THE HUNTER AND HEALTH SEEKER.

Future City of the Alleghanies and
Center of Iron Production.

Commodious Hotel for the Entertainment of Summer Guests.

2,000 TOWN LOTS FOR SALE.

FOR INFORMATION ADDRESS

A E HUMPHIREYS, Prest., New Castle, Va.

THE BEST INVESTMENT ON THE MARKET

IS THE STOCK OF THE

EAST RICHMOND CO.

Par value of shares, \$25. Payments each month per share, \$1.00. Twelve shares, costing \$12 per month, or \$300 in all, entitles the holder to one lot free, the lot to be decided by a drawing. The \$300 worth of stock participates in all the profits of the Company derived from the 3,000 lots left to the Company after the drawing and those reserved for free sites to factories and all other interests of the Company.

East Richmond consists of about 1,000 acres of manufacturing and residential property, the most desirable around Richmond, the center of which is only two and a-half miles from the City Hall, the center of the city. For the purchase and improvement of this property the Company issues \$1,000,000 of stock as described above. The Company has secured factories which

WILL EMPLOY 1,000 HANDS.

These buildings are now being erected, and will be in full blast in three months. This will give East Richmond a population of several thousand in the near future, residences for which are contracted and now being erected. Considering the above, with its close connection to Richmond proper, as described below, East Richmond offers a golden opportunity for investment.

Population of Richmond and suburbs,	-	105,000
New houses per annum,	- - - -	1,200
Banking capital,	- - - -	\$4,500,000
Bank clearings,	- - - -	\$112,000,000
Number of manufactures,	- - - -	783
Different kinds of manufactures,	- - - -	99
Increase in 1890,	- - - -	59
Value of manufactured products,	- -	\$34,500,000
Jobbing sales	- - - -	\$32,000,000
Miles of electric street railway,	- - - -	27
Miles of horse street railway,	- - - -	10

10,000 MILES OF RAILROADS

Center in Richmond. Water navigation to all points of the world. No point in the whole country can offer such inducements as the East Richmond Company. The lots drawn with the stock will be very valuable. At a recent sale lots the same distance from the city brought \$500 and \$600. For full information address

DAVID W. REINHART, General Manager, 819 E. Main Street, Richmond, Va.

ELKTON, VIRGINIA.

IN THE WORLD-FAMED SHENANDOAH VALLEY.

Presents to-day the Best Opportunities for Safe and Profitable Investments to be Found in Virginia.

In one short year it has grown from a mere hamlet to a town of nearly 900 souls.

When factories now in course of construction are all in operation, at least 1,200 people will have their homes in Elkton.

Our industries are numerous and varied.

We do not depend on any one big concern to make or break us.

The immense TIMBER SUPPLY gives employment to a number of Saw Mills and Planing Mills and Lumber Yards.

We have also a Sash, Door and Blind Factory,

A Steam Bark Mill (under construction),

A New Roller Mill, 100 barrels daily capacity,

A Large Tannery,

Steam Brick Works,

A Cannery (contracted for),

Wagon and Spoke Factory (under construction),

A Large Cutlery Factory, nearly completed, which will employ at least 50 hands, and which will begin work in June.

Besides, are the various minor industries to be found in every town, such as Blacksmith, Harness, Wheelwright, Carpenter, Cabinet Makers, Tanners, Plumbers, Etc., Etc.

A Water Company supplies pure Lithia Water through a complete system of pipes to all residences and stores desiring it.

RATES:

For Single Days, . . . \$2 to \$3

Weekly Rates, . . . \$9 to \$15

Monthly Rates, . . . \$25 to \$50

Special Rates to Ministers.



THE ELKTON HOTEL.

Rooms May be Engaged and
Prices Fixed by Applying to

C. P. WALTERMIRE, Manager.

June 22, 1891.

The Finest Hotel in Virginia, "THE ELKTON," is here. Run under the management of the Elkton Improvement Company.

Lighted by gas, supplied with pure lithia water in unlimited quantity, and with all modern conveniences.

Investors will find our property priced so as to insure profits.

NO FANCY PRICES have been asked, but values will be confined to ACTUAL WORTH.

We invite Investors, Home Seekers, Tourists, Business Men, Manufacturers, small and great, to COME TO ELKTON.

FOR PARTICULARS ADDRESS

THE ELKTON IMPROVEMENT COMPANY,

S. P. H. MILLER, President.

S. C. SPENCER, General Manager.

THOMAS K. HARRSBERGER, Secretary & Treasurer.

As A LOCATION for Manufactures

Of Iron and Wood and for General Industrial and
Business Enterprises,

FRONT ROYAL, VA.

INVITES INVESTIGATION.

Its location, at the junction of the Norfolk & Western Railroad (Shenandoah Valley line) and the Richmond & Danville's branch, give it excellent transportation facilities. It is only a few hours' ride distant from Washington. The Norfolk & Western's direct line to Washington will be built from Front Royal.

There is no Finer Agricultural Country in the World than the Famed Shenandoah Valley, in which Front Royal is Located.

A WIDE RIVER WITH SWIFT CURRENT FURNISHES WATER POWER
AND MAKES DRAINAGE PERFECT.

Front Royal is a Prosperous Town, with an Extensive Mercantile Business
and Many Manufacturing Enterprises in Operation and
Under Construction.

INVESTIGATION OF ITS ADVANTAGES IS INVITED BY THE

Front Royal---Riverton Improvement Company,
FRONT ROYAL, VIRGINIA.

MINNEAPOLIS, VA.



Minneapolis is Under the Management of GEN. THOMAS L. ROSSER, Builder of the Northern Pacific and Canadian Pacific Railways.

Resources.

Coal and Iron, both in Inexhaustible Quantity and Unexcelled Quality, In juxtaposition.
In the Center of a District Composed of Five Counties, Containing More Timber Than Minnesota and Wisconsin Combined.

Advantages and Attractions.

A Healthy and Beautiful Situation in a Valley 2,000 feet above Sea Level, Surrounded by Mountains.

Encircled by a Large Bold Stream, ample for Water, Drainage and Power.

The Crossing Point of the Norfolk & Western and the Three C's, the Future Great East and West and North and South Trunk Lines.

INDUSTRIES FROM ALL SECTIONS

Are now Seeking a Location at Minneapolis on Account of the Minimum Cost and Maximum Quantity and Quality of Raw Materials, the Fine Transportation Facilities and the Healthfulness and Beauty of the Site.

JOHN M. WHITE, Treasurer,
CHARLOTTESVILLE VA.



OVER THE YONAHLOSSEE ROAD.

A BEAUTIFUL route for summer excursions, by way of Johnson City, Doe River Gorge, Roan Mountain, Cranberry, Linville, Grandfather Mountain, Blowing Rock and Lenoir. Through railroad and stage connections from either terminus. For information as to excursion rates address the Western Carolina Stage Coach Company, Linville, North Carolina.

IN WINSTON-

THERE IS REAL ESTATE

In North Carolina, and Conspicuously so in Winston-
Than Anywhere Else

If you keep pace with the development of this great nation you know that this is North Carolina's year. In percentage of increase of population she leads every Southern State east of the Mississippi river, West Virginia and Florida alone excepted. If you know anything about this vast empire of mineral, timber and agricultural wealth you know Winston-Salem has more established factories, does more business and has brighter prospects for a great future than any other city in North Carolina.

As prices are low and a great development here in progress, this is the place to buy town lots. Even during the midsummer, there has been a steady demand for city property, 90 per cent. of which was for immediate use for stores or residence purposes.

Now is the time to buy. There will be a season of unprecedented activity in Winston-Salem this fall, and you can get in on the ground floor figures just now.

There are about 12,000 more people in the twin cities now than in 1880. This growth was made without any artificial aids, and represents just that many more manufacturers, business men and wage workers.

There have been marketed in Winston in the past nine months 14,000,000 pounds of leaf tobacco. The end of the tobacco year will probably see 3,000,000 more pounds marketed here. The average price paid is about 12 cents a pound. There are less than 30,000 people in Forsyth county. So there is paid out in hard cash for this one item at least \$60 per head per annum for every man, woman and child in the county.

There are 36 plug tobacco factories, and there are about seventy-five other factories—extensive wagon works, woolen mills, cotton factories, etc.—and they pay out over \$1,000,000 a year in cash for wages. This is over \$3,000 a day—nearly 25 cents for every man, woman and child in the city.

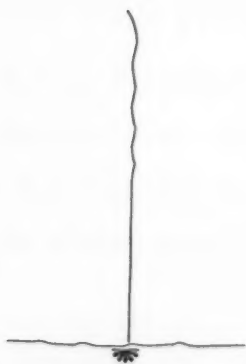
Is it any wonder that with such a stream of life blood being constantly pumped through her arteries Winston-Salem should be the most substantial, liveliest and best town of its size in the upper South?

There are 90,000 acres of timber land in Forsyth county alone—heavy oak forests, interspersed with hickory, walnut, poplar and pine. Dozens of woodworking establishments

If you desire Lots in WINSTON-SALEM
views, pamphlets or other

PETER M. WILSON, Manager West End Hotel & Land Co.
F. M. SIMMONS, President Winston-Salem Land & Investment Co.

G. W. MASLIN, Winston Development Co.
W. F. ANDERSON, Manager North Winston Land & Improvement Co.



WINSTON-SALEM,

SALEM, N. C.

ACTIVITY RIGHT NOW.

Salem, there is More Development Work Now Going on in the Whole Country.

find profitable employment for their capital. Does'nt it seem certain that dozens of others would find the field a profitable one?

Undeveloped coal fields, immense deposits of magnetic iron ore and acres of lime cliffs in the neighborhood, suggest possibilities in iron industries which are demonstrated in the development of new towns everywhere in the South.

Winston-Salem is the center of four railroads, and its North, South, East and West connections will soon be unsurpassed.

\$500,000 worth of new buildings were put up last year. There will be \$1,500,000 worth erected this year, including a \$100,000 hotel, and the demand is still far from being supplied.

Electric car lines, electric lights, telephone service, water works, Belgian block and macadamized streets are some of the necessary luxuries now enjoyed.

Having an altitude of more than 1,000 feet, with an average summer temperature of 80 degrees, and a mean winter temperature of 40 degrees, and an annual rainfall of 48 inches, it has an advantage in climate which has for a century given this section a great reputation for healthfulness.

The famous Salem Female Academy and the graded and military schools give unexcelled educational advantages.

There are seventeen churches, and the tone of the community is of the most elevated character. Salem is the center of the old Moravian settlement, and Winston is an energetic and in every respect creditable offspring.

Six conservative and responsible land companies offer for sale business, manufacturing and residence properties in and immediately adjoining the city, all within a mile of the public square.

There is no city in the South with so abundant a supply of such beautiful suburban residence property in all directions as Winston-Salem possesses.

The substantial basis upon which Winston-Salem is built, her wealth-producing power, her rich surrounding country, her present needs and her inevitable increase in every material way, invite the manufacturer, the capitalist, the investor, the builder and the mechanic from everywhere, and promise him sure and generous rewards.

or any of its additions, plats, birds-eye information write to

JOHNSON & JONES,
J. E. CATLIN,
P. C. HUMPHREY or
AMIS & SCOTT,

Real Estate Agents.

NORTH CAROLINA.

SAVERNAKE, *Rockbridge County,* VIRGINIA.

FOR 1891 Offers to the Investor a Most Desirable Opportunity for Profit.

LOTS for Business and Residence Purposes

AT PRICES TO SUIT THE TIMES.

SAVERNAKE adjoins Buena Vista on the Southwest; fronts on Shenandoah Valley Railroad and on James River Division of the Chesapeake & Ohio Railway. High Grade Manganese and Iron Ores to steel and iron trades. Safety and profit to investors. Healthy and picturesque homes at moderate prices to lot buyers, notwithstanding the late depression due to monetary stringency and unusually severe weather.

The industries secured for Savernake have all been retained, and will proceed to build as soon as the weather permits.

THE SAVERNAKE PRESSED BRICK COMPANY.

This Company, formed to manufacture from the superior clay deposits found at Savernake, the highest grade pressed, front and ornamental brick, is now erecting the pressed brick works,

CAPACITY 40,000 BRICK DAILY.

The capital of the Company is \$30,000, full paid. The grade of brick to be made here sells now for \$30 per 1000 at Buena Vista, and allows a very fair margin of profit, insuring large dividends to shareholders.

A limited amount of stock remains unsold.

Prospectus may be had and all information obtained by application at office of Savernake Pressed Brick Co., Savernake, Va.

It is expected that the works will be completed and in operation in thirty days.

THE SAVERNAKE INVESTMENT CO.

The Savernake Investment Company has been organized under a very liberal charter, granted by the Circuit Court of Rockbridge county, Va. It is empowered to do a general

CONSTRUCTION AND IMPROVEMENT BUSINESS,

to buy, sell, rent or lease real estate, to remove encumbrances from the same, to accumulate funds for investment, loans, manufacturing, banking commercial or other purposes, as may seem to the Directors most profitable.

The Company has purchased seventy-five residence lots and twenty-five business lots in the town of Savernake for \$35,000 of paid-up stock

in the Investment Company. The present market value of the above lots is \$62,500, thus leaving \$27,500 over and above the amount paid for the lots as a profit, belonging to the stockholders.

It is proposed to make the minimum stock of the Company \$70,000, to be divided into shares of \$50 each; 700 shares will be issued to the the Company in full payment for the 100 lots purchased, and the remaining 700 shares (\$35,000) will be placed on the market on the following

TERMS:

Ten per cent. at the time of subscription,	\$ 5 00
Ten per cent. on call of the Directors,	5 00
Ten per cent. every thirty days thereafter,	40 00
Par value,	\$50 00

The \$35,000 realized from the sale of the stock will be used in building upon and improving the lots purchased, or for other purposes named in the charter, as may be deemed most profitable by the Board of Directors.

ATTENTION is called to the fact that no Building or Investment Company yet organized at any of the new towns of Virginia has failed to realize large profits.

THE VALLEY INVESTMENT COMPANY, of Buena Vista, organized July, 1890, capital \$10,000, on October 1st, with a paid-up capital of \$4,000, showed net earnings \$6,000.

THE SOUTHWEST VIRGINIA INVESTMENT COMPANY, composed of Philadelphia capitalists, organized about two months since, with a capital of \$100,000, now shows profit of \$33,000.

THE HOME INVESTMENT COMPANY, of Buena Vista, commenced business about September 1st, 1890, with \$3,000 paid in, and on the 15th of October last, reported as actual undivided profits \$1,710, and an estimated profit of \$23,000, representing the difference between the cost of their property and the market value.

THE LEXINGTON INVESTMENT COMPANY commenced operations at Buena Vista about twelve months since, with a proposed capital of \$30,000. Paid \$10,750 for 50 lots; after collecting 50 per cent., declared the stock paid up, and could realize \$420 per share if the property were placed on the market.

When it is considered as a basis for the subscription of \$35,000 to the capital stock of the Savernake Investment Company that its 100 lots are paid for in full and represent a positive value of \$27,500 more than the amount paid for them, it must readily suggest to any one the very desirable character of this stock. Under the charter the following are the officers of the company for the first year:

OFFICERS:

PRESIDENT, J. HOWARD WAYT, Staunton, Va.
SECRETARY AND TREASURER, J. E. B. STUART, Buena Vista, Va.

VICE-PRESIDENT, THOMAS DUNLAP, Savernake, Va.
MANAGER, J. M. HENKLE, Buena Vista, Va.

DIRECTORS:

J. HOWARD WAYT, Staunton, Va. THOMAS DUNLAP, Savernake, Va. W. H. H. LYNN, Staunton, Va. J. M. HENKLE, Buena Vista, Va.
SAMUEL SADDINGTON, London, England. STEVENS M. TAYLOR, Lexington, Va. J. E. B. STUART, Buena Vista, Va.

Subscriptions may be sent to and all information had of J. E. B. STUART, Secretary and Treasurer, Buena Vista, Va.

Capitalists Desiring Prudent Investments

In Southern Manufacturing Enterprises, conducted by experienced specialists in works with an established trade for years and proposing to remove to

SAVERNAKE

with the coming spring, can address the management as below.

THE LINES OF MANUFACTURES PROPOSED, ARE:

Steel Ingots.

Under one of the new direct processes, now commercially established, affording large profits and worthy of closest investigation.

Agricultural Steel Forgings.

Including Spring Steels and Mining Tools, Picks, Mattocks, &c., &c.

Locks, Knobs and Builders' Hardware.

High-grade goods in real and imitation Bronze, Silver and Nickel-plated goods, &c., with established reputation and extensive trade. A most desirable opportunity.

Tin and Tin-Plate Co.

With advantages believed to be unsurpassed by those of any other company formed for this purpose, viz:

Ownership of valuable Tin Ore lands of demonstrated value in the Blue Ridge Tin field of Virginia.

Promotion of Steel and Steel-Plate for Tinning on the spot from ores controlled by the Company, at minimum of cost.

Management of various branches by specialists of experience in Tin mining, dressing and smelting; in steel metallurgy; in Tin-Plate making and marketing.

Management of finance by capitalists of experience and position in the financial world.

Control by ownership of the best, and most generally used abroad, Tinning process—patented—and of various other late and improved devices for the most economical production of Tin Plate.

Demonstrated and verified cost and profit sheets will be furnished principals meaning business.

Steam Engines, Boilers,

Complete Power Plants, Iron Bridges and General Machinery Works, established 1840, trade general throughout United States. Management of first respectability. Investment most desirable.

Hydraulic Cement Works.

Deposit large, running through 1,200 acres; quality stated to be same as James River cement. Location, within half a mile of two parallel railroads. Demand strong. A most profitable industry.

Fire-Brick Works.

Clay in large supply, near railroad. Has been tested and pronounced first-class. Every facility for manufacture at large profits.

All or any of the above offer safe and desirable investment for capital on business principles, at bed-rock prices, and with no "promoter's funds."

The owners of these works, with the exception of two—the Tin-Plate Works and the Hydraulic Cement Works, which are new—have concluded to

remove them to Savernake after examination of the locality, the raw material the advantages over present site.

All plants are at expert appraised value; trade shown and capital invested demonstrated.

Capitalization is, in every case, upon these data, and necessary additions for removal and extension, and is entirely "without water."

Northern Investors

In Town Mortgages have here an opportunity to obtain the superior advantages and profits of Southern Manufacturing Enterprises, combined with experience, skill and established trade.

The establishment of Savernake as an

Industrial Town

requires capital upon a large scale, and from various sources. Experience teaches that investors are guided by and select from, those opportunities offered in and by the journals of much established repute and widest circulation in their specialties.

The Manufacturers' Record

Has been selected because of its thorough knowledge of Southern investments, its unparalleled success in attracting attention to honest opportunities for Southern enterprise, and because in a largely extended advertising more direct results and more business has been received from it than all other advertising mediums used.

The above enterprises are all ready to proceed at once to building at Savernake. All offer legitimate profit, and are offered only subject to strictest investigation, and on this basis only.

Such a group of industries will demand homes for a large population and for those to supply their necessities and luxuries.

Savernake and Extensions.

Will offer for the season of 1891 some 2,000 desirable BUSINESS AND RESIDENCE LOTS. Prices of these will be in no case speculative. A marked reduction and favorable terms to those who will contract to build their own homes on purchase of lot. A liberal and equitable concession for cash purchases, and to building investment and manufacturing companies.

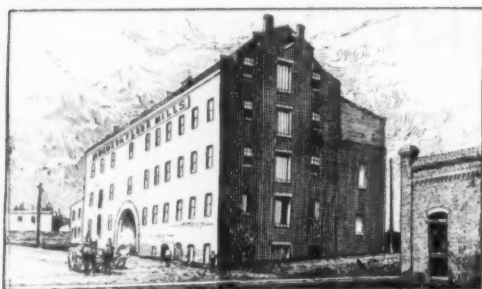
Foreign Investors

May address for information and particulars THE LOCH LAIRD ESTATE & MINERAL CO., LIMITED, OFFICE, 39 LIME STREET, LONDON, E. C.

American Investors

Will apply to THOMAS DUNLAP, MANAGING DIRECTOR, SAVERNAKE, VA. POSTOFFICE ADDRESS, TRIFORD, ROCKBRIDGE CO., VA.

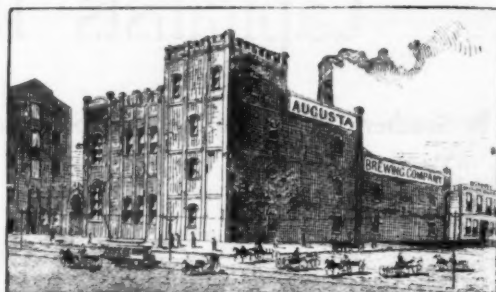
Railroad Station for both Shenandoah Valley Railroad and Chesapeake & Ohio Railroad, Loch Laird Station, Va. All C. & O. Railroad Trains stop at Savernake.



AUGUSTA FLOUR MILLS.

New Pictures Every Week.

Illustrating
TO MANUFACTURERS



AUGUSTA BREWING COMPANY

AUGUSTA, GEORGIA

AUGUSTA, GEORGIA, offers unequalled advantages for the Southern location of factories, and calls attention to the following facts:

Augusta has long been the **LARGEST COTTON MANUFACTURING CITY IN THE SOUTH**, having gained for herself the sobriquet of the "Lowell of the South," and she will lead in other manufactures.

She has twelve large cotton factories, which, alone, are more than any of the entire States of Arkansas, Florida, Louisiana or Missouri, and the same number as the State of Mississippi. She has the best map position in the Southern territory, standing between the North and the extreme South, in access to the Atlantic Ocean, and in the midst of the most vital and far reaching systems of railroads in the South. She is at the **HEAD OF STEAM NAVIGATION** of the SAVANNAH RIVER, opening to the sea, and is the best point relative to Northern, Western and Southern home, and Southwestern foreign markets, in a Southern direction.

Augusta is the center of the richest and most populous agricultural region of the Southeast, making her the **SECOND LARGEST INLAND COTTON MARKET IN THE UNITED STATES**, Memphis being first, and guaranteeing support by home consumption alone to many manufactories.

Augusta has a population of 45,000 (including suburbs) which is larger than that of Chattanooga, Little Rock, Knoxville or Birmingham. Augusta's tributary territory is filling with towns, and has a population of 1,000,000. Augusta and her territory support home industries.

Augusta is in the midst of vast fields of kaolin, fire-brick and other clays, ochre and superior glass sand; and granite, marble, copper, iron and coal are in easy access.

Augusta is the **LARGEST LUMBER MANUFACTURING CITY** in Georgia, which means the largest in many States, and besides pine, has unlimited quantities of hardwoods for every kind of hardwood manufacture—oaks, of all varieties; hickories; ashes; poplars; maple; cedar; cypress; walnut; sassafras; tupelo, and other gums.

Augusta is assured low freight rates for all time by her river; as, for instance, her present rate on Eastern freights is 18 cents per hundred less than either Macon's or Atlanta's (though Augusta is 112 miles from the sea), and only 2 cents more than Atlanta's on freights from the West.

Augusta is essentially a **MANUFACTURING CITY**. She has one of the most superb canal water-powers in the world, and by long odds the finest in the South, but notwithstanding this power, the city is filled with black chimneys and smoke and steam jets, while at the same time electric motors run many establishments.

Augusta's canal furnishes 11,000 horse-power, of which there are about 2,500 yet unused for day use, sufficient for many small industries, and nearly the full daily quota for night use. The capacity of the canal may be increased to 14,000 horse-power.

Augusta's canal cost her \$2,000,000, and power is rented cheaply at \$5.50 per horse-power per annum.

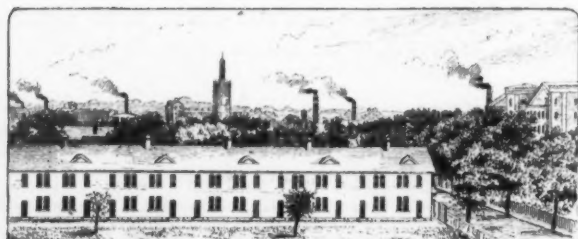
Augusta is not one of the new cities where there is everything of a public nature yet to do, with consequent high taxes for a long time, but is one of the oldest cities of the South, firmly built and established, with streets, water works, sewers, gas, electric light and power plants, public schools, public libraries, societies, parks and churches, and city and government public buildings, coupled to an energetic citizenship and the spirit of the new South.

Augusta is in the midst of many materials for manufacture, is commanding among Southern cities with a great future as with a great present and past, is increasing in population and extent with phenomenal rapidity, is having many added miscellaneous manufactures, and will welcome the founders of every new industry, great or small—irrespective of creeds, political faiths or nationalities—bringing capital and honest and earnest citizenship.

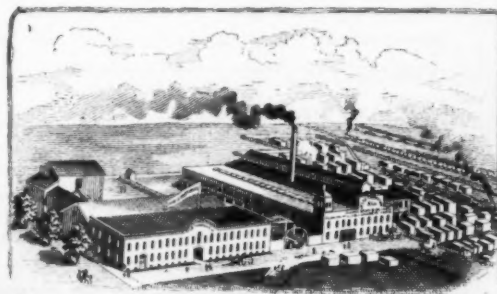
Many new industries are needed, especially those working in wood, cotton, leather, kaolin, clays and fruits.

Any information will be cheerfully given by any of the following parties:

PATRICK WALSH, President Augusta Exposition.
D. B. DYER, President Augusta Ry. Co.
E. J. O'CONNOR, President Murray Hill Improvement Co.
JAMES U. JACKSON, Manager North Augusta Land Co.
J. H. ALEXANDER, President Alexander Seed & Drug Co.
C. V. WALKER, President Augusta Real Estate Exchange.
W. C. JONES, Secretary Augusta Real Estate & Improvement Co.
C. B. COFFIN, President Mutual Real Estate & Building Association.
A. J. GOULEY, President Irish-American Investment Co.
JAS. L. FLEMING, President Augusta Real Estate & Investment Co.
W. C. JONES, Secretary Augusta & Summerville Land Co.
BOYKIN WRIGHT, President Druid Park Land Co.



AMONG THE MANUFACTORIES.



THOMPSON LUMBER COMPANY.

BUILDERS
AND
ORIGINATORS.

THE EGAN COMPANY,

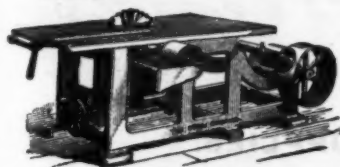
DESIGNERS
AND
CONSTRUCTORS.

228 to 248 West Front Street,

CINCINNATI, OHIO, U. S. A.

COMPLETE OUTFITS FURNISHED

For Planing Mills, Sash, Door and Blind Work;
Saw Mills Furniture, Chair and Bracket Factories;
Car, Railway and Agricultural Works;
Buggy, Carriage and Wagon Builders; Spoke, Wheel
and Handle Factories, Pattern Shops and General Wood-
workers.



SEND FOR A NEW
CATALOGUE
OR
STATE YOUR
WANTS.

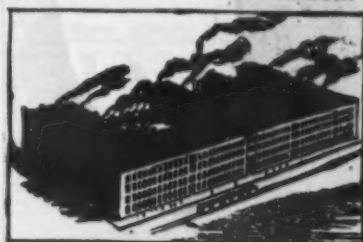
Wood Working Machinery

The Most Recent Ideas for Fast and Perfect Work.

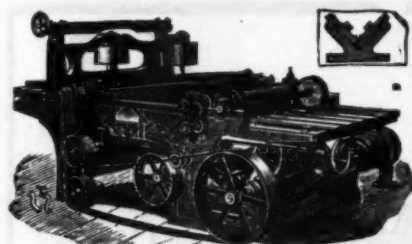
For Quality and Efficiency
Our Tools are

UNEXCELLED,
UNEQUALLED,
UNAPPROACHED.

The Most Advanced Types
for the
Saving of
TIME and LABOR.



THE LARGEST
LINE IN THE
UNITED
STATES.



Diagonal Planer and Polisher.



ROWLEY & HERMAN

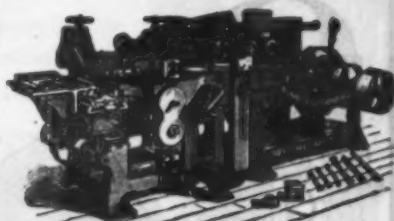
WILLIAMSPORT, PA., U. S. A.

Manufacturers of the Finest and Most Complete Line of

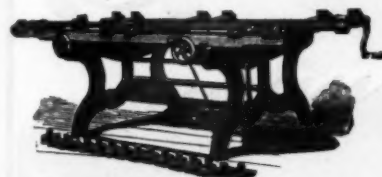
Wood-Cutting Machinery

IN AMERICA.

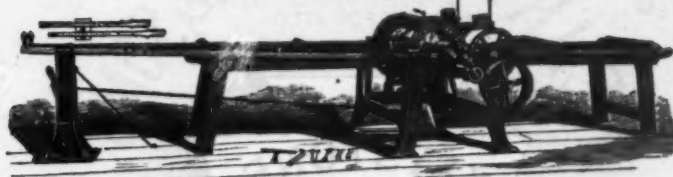
Write for Illustrated Catalogue and Special Prices.



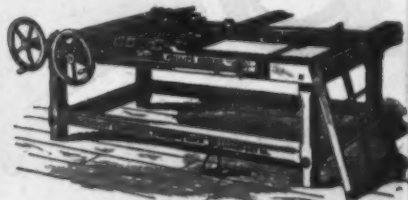
Improved pinch and re-latch Moulder



Patent Door and Blind Clamp, with or without Sash Attachment.



No. 2 New King Power Feed Gang Rip Saw.



Phillips Patent Sash Clamp.

The Hackney Power Hammer.

EIGHT SIZES.

SINGLE AND DOUBLE STANDARD.

*N*O Rubber Cushions to Wear Out.
No Straps to Break.
No Springs to Crystallize.
No Adjustment to be Made for
Light or Heavy Blow.

WORTH READING.—"Less Repairs Than Any
Other Hammer They Have"



Local Agents, Bureau of Commerce

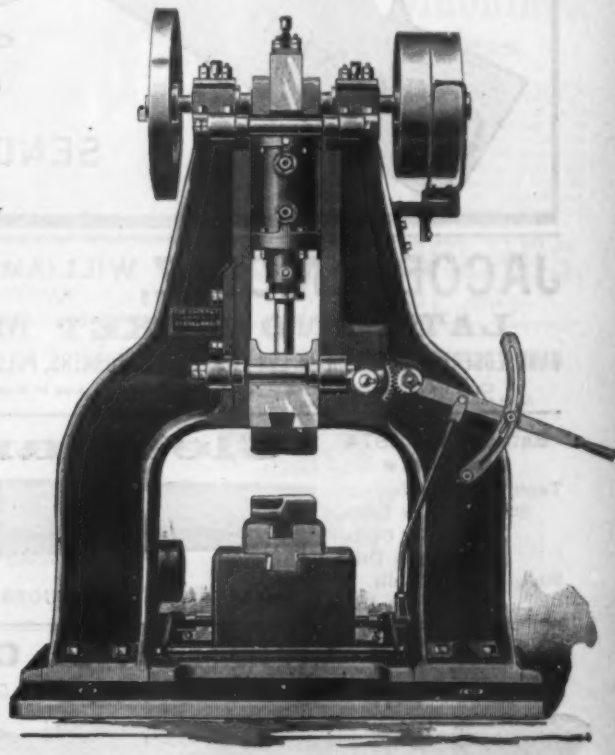
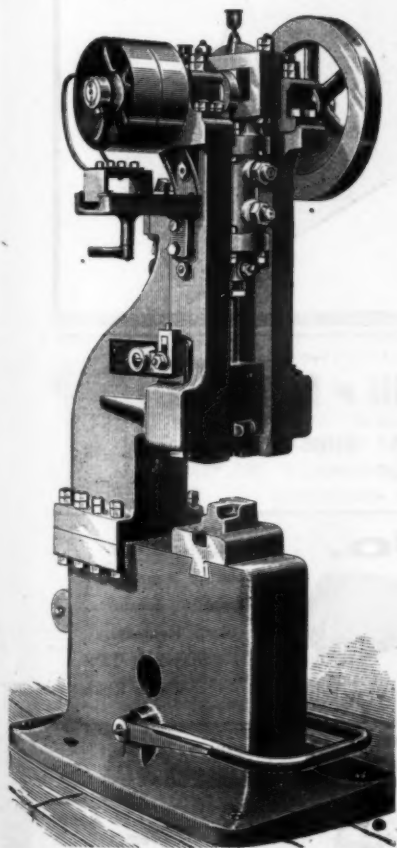


COLUMBUS O April 19th 1891

The Hackney Hammer Co
Cleveland Ohio

Gentlemen
In answer to yours of the 11th regarding
our experience with the Hackney Hammer which
has been in use for 6 months on
very hard work running almost constantly and
they are giving us the very best satisfaction and
with but little expense for repairs, less than
any other hammer that we have and requiring
little power to run them

Yours Respectfully
Columbus Buggs
for Fred W. Allen
Left May



Write for Catalogue
and Price-List to

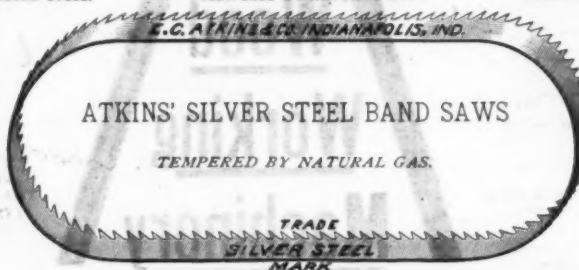
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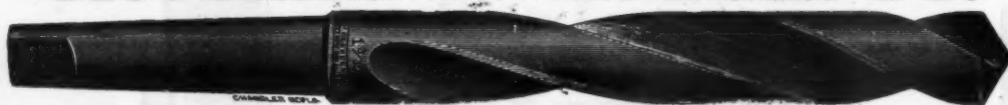
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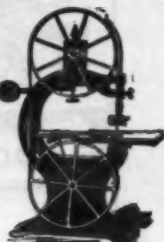
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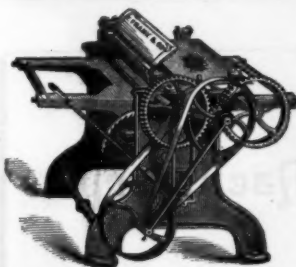
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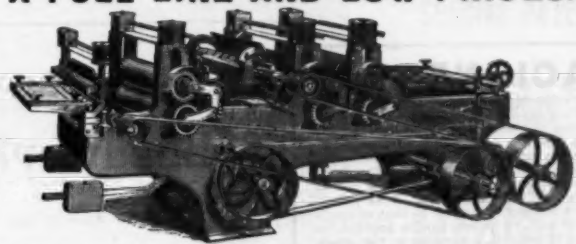
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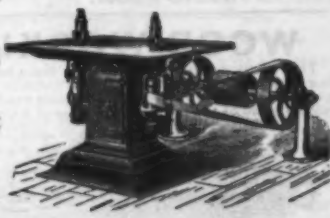
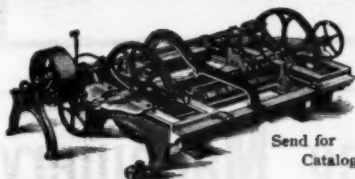
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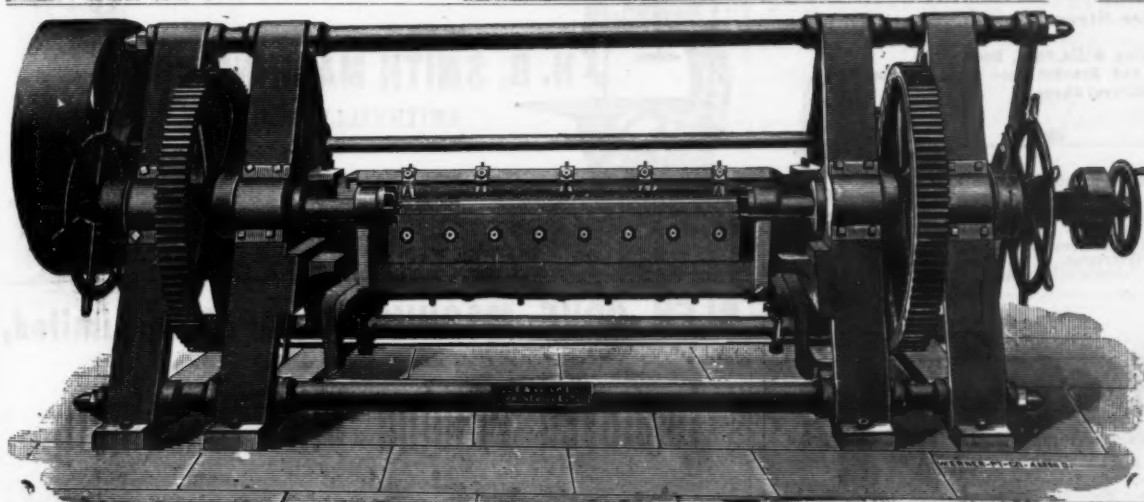
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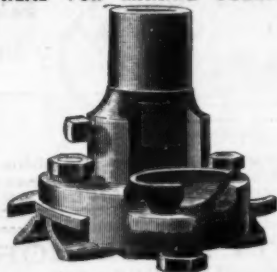
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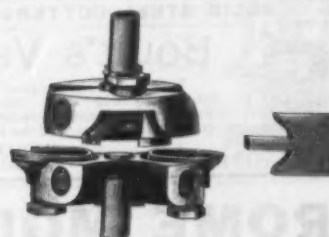
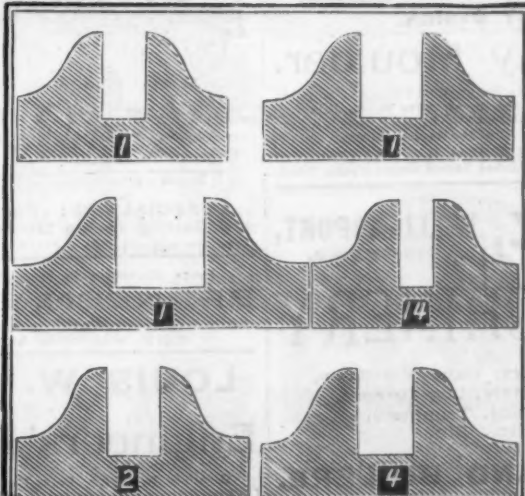
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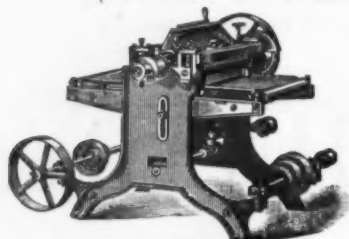
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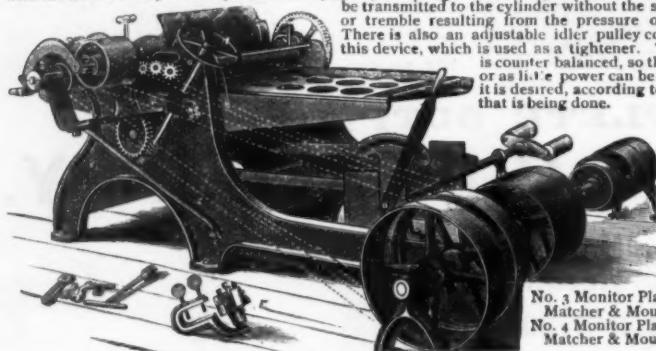


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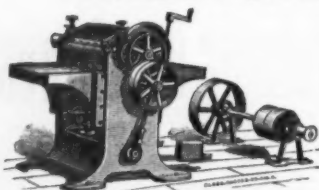
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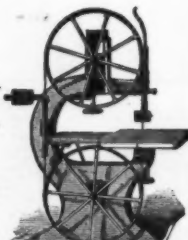
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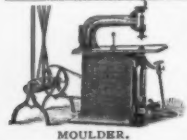
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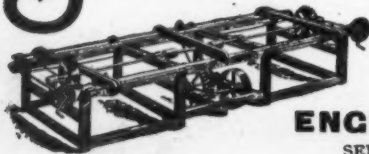


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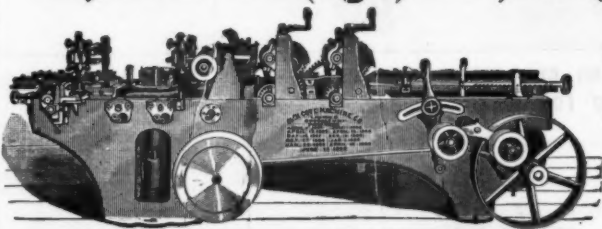
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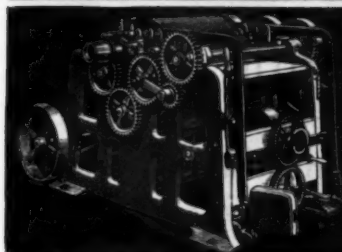
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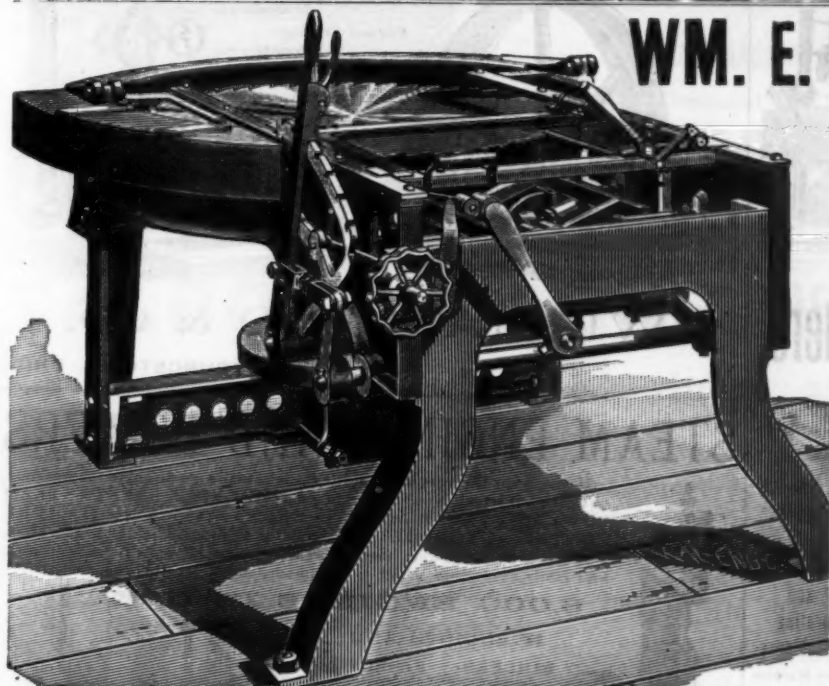
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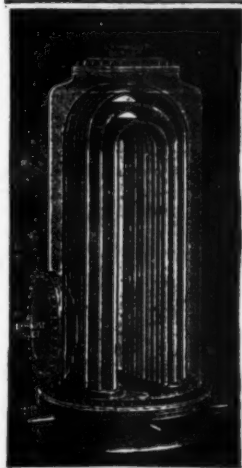
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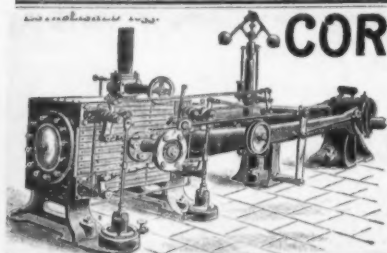
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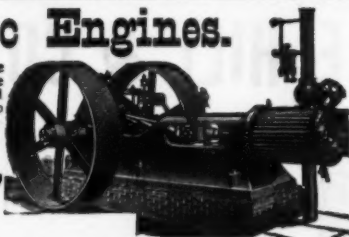
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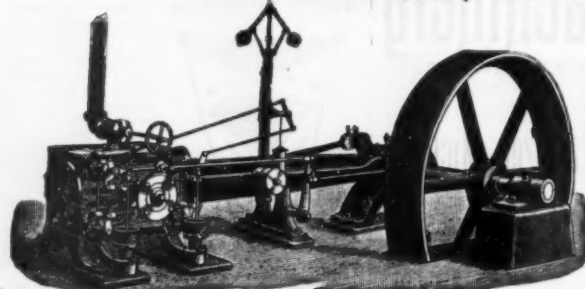
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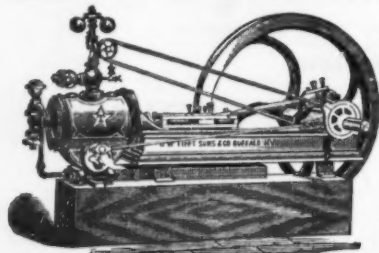
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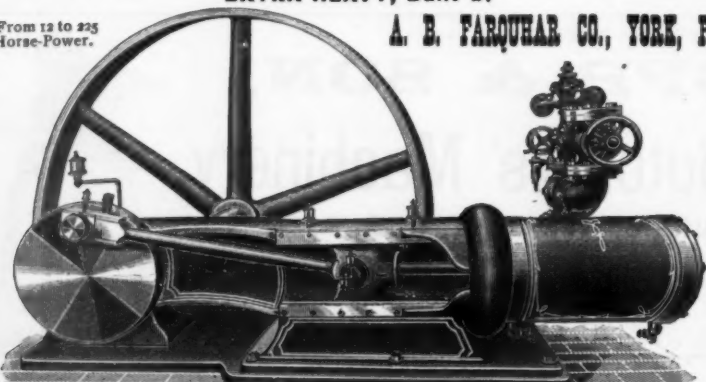


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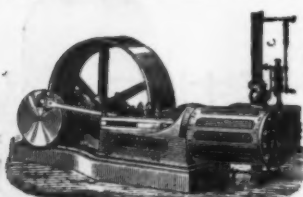
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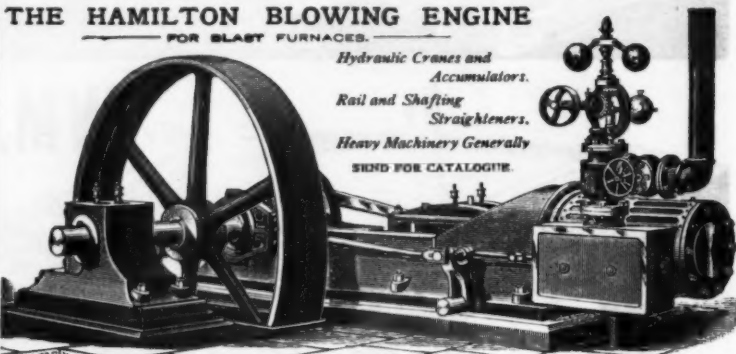
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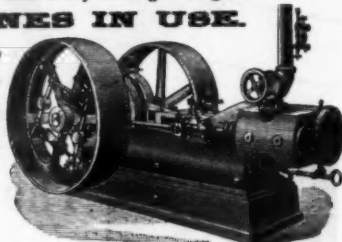
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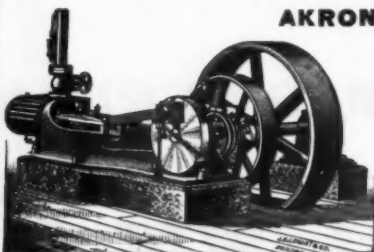
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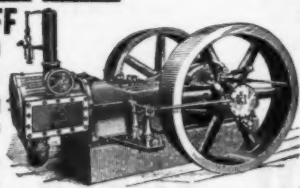
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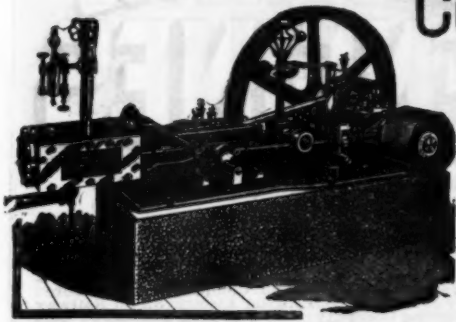
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NORTH ST.**The WARFIELD MANUFACTURING CO.****BALTIMORE, MD.****Complete Steam Plants,
COMPLETE ELECTRIC-LIGHT PLANTS**

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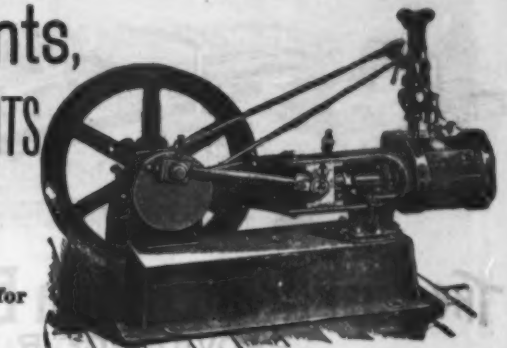
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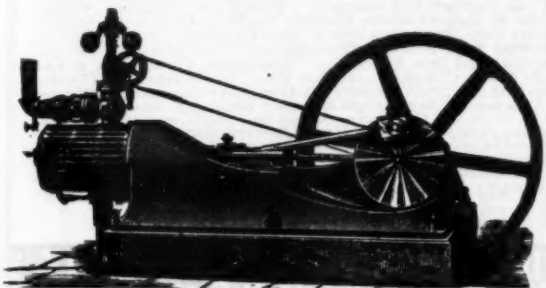
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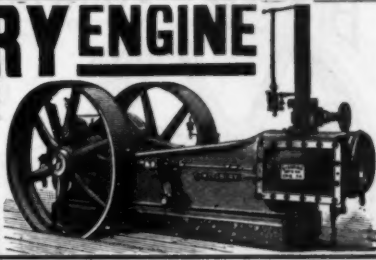
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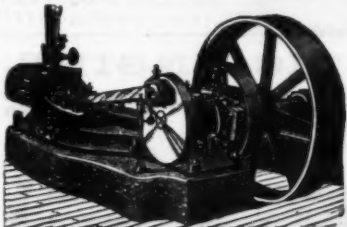
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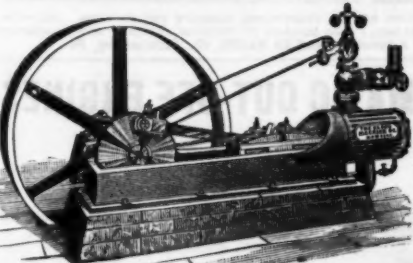
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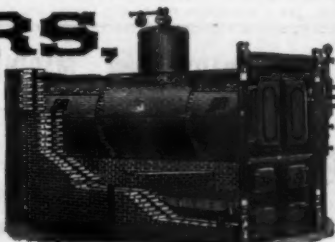
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Repeated tests prove that it is
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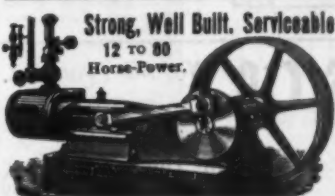
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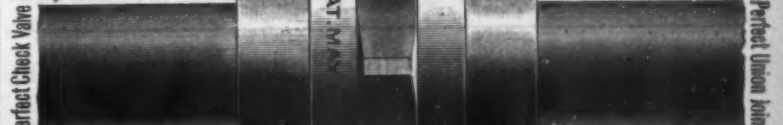
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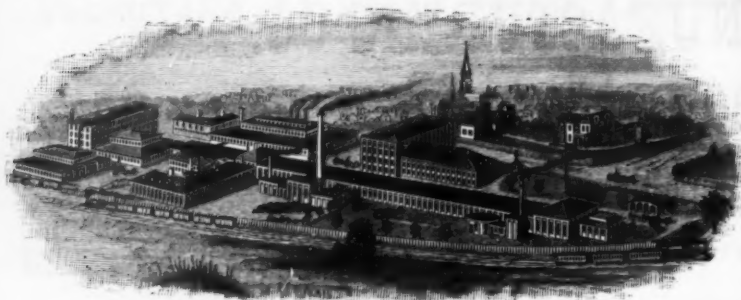


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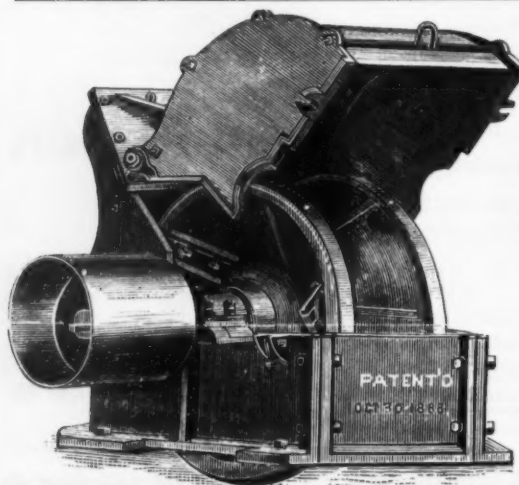
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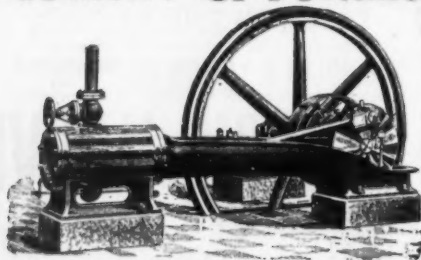
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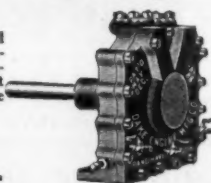
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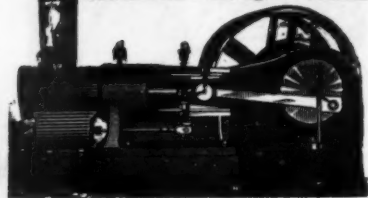
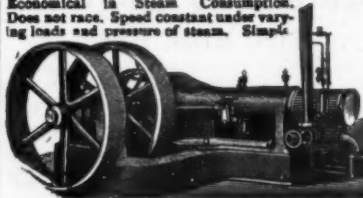
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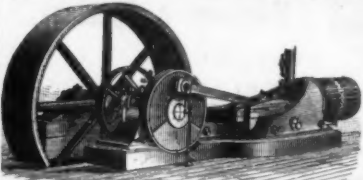
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REPAIRING PROMPTLY DONE.

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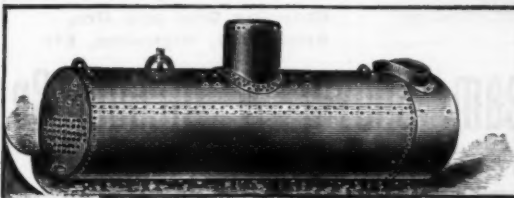
Removing all impurities from the water before it enters the boiler.

This cut is a fac-simile of the appearance of the shelves of a No. 5 Heater at work on ordinary lime water, when the door was removed after the Heater had been running two weeks. Illustrated catalogue free.

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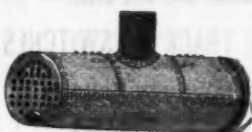
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42,000 IN USE.

"Efficiency 99 1-2 per cent."
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RANGE 20 to 150 pounds. Lift 20 feet. Hot water supply, 175 to 128 degrees. 80 pounds pressure. One valve to operate. Automatic and re-starting.

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The Simplest and Most Perfect Boller Feeder Made.

HAS PRACTICALLY BUT ONE INTERIOR PART. Nothing to cut or wear out. IT IS SIMPLICITY AND PERFECTION.

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Weight 40 tons.
Capacity 2,500 cubic yards per day.

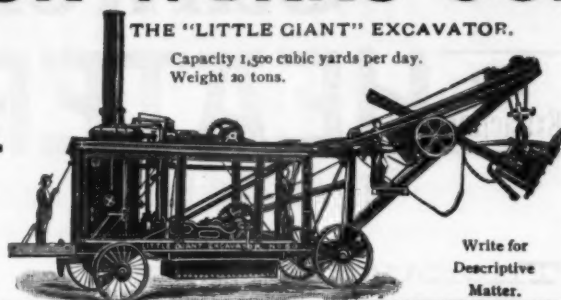
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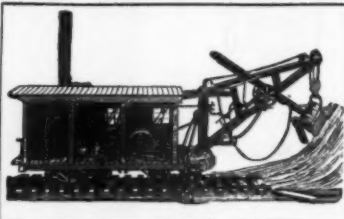
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STEAM DREDGES,

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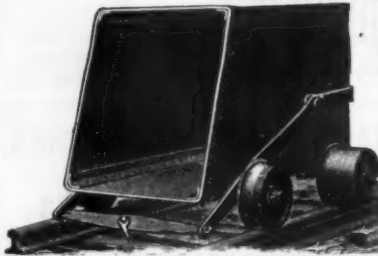
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Manufacturers of Every Description of



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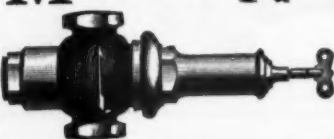
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SINGLE & THREE THROW SPLIT SWITCHES.
FIXED & AUTOMATIC SWITCH STANDS, STEEL
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CABLE & ELECTRIC
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REFINED AIR FURNACE
MALLEABLE CASTINGS
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TRY THE "CLEVELAND"

\$3 STEEL DIRT BARROW

and you will never use any others. They are the BEST IN THE WORLD, being made in the strongest manner possible, with trays of best quality STEEL placed on thoroughly seasoned hardwood frames. Well braced throughout, and will outlast a dozen common wood Dirt Barrows. Write for circular. THE CLEVELAND WHEELBARROW & MFG. CO., CLEVELAND, OHIO.

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Combine Maximum Safety,
Economy of Fuel, Durability.

Merits Proven by Over
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All sizes from 4
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Ease of Transportation, Erection and Repair.
Full Particulars, Drawings and Estimates
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SUCCESSORS TO WEBSTER & CUMSTOCK MFG. CO.

MANUFACTURERS OF
"STEEL PLATE" FRICTION CLUTCHES,
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THE POPULAR "SHELDON"
Compound Lever Pinch-Bar.



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DEALERS IN
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Coker-Metcalf Power Grain Shovel. **BELTING.**



"HERCULES" Steel Scoop.



PATENTED APR. 17, 1885.

SPIRAL STEEL CONVEYOR.

Railroad Construction

Abilene, Texas.—Street Railway.—A Mr. Carter has applied to the city council for a franchise to construct a street railway.

Arvon, W. Va.—Railroad.—The Welsh Colony Railroad Co. has been chartered to build a railroad from the new town of Arvon, Webster county, to a connection with any railroad that may be built to within 20 miles of Arvon. D. S. Thomas, of Edwardsville, Pa.; John Evans, W. J. Edmunds and others, of Naticoke, Pa., are the incorporators. The capital stock is \$100,000.

Athens, Ga.—Railroad.—The Georgia Carolina & Northern Railroad Co. will, it is stated, commence tracklaying at once on the 25 miles of its road from Athens to Lawrenceville, Ga.

Austin, Texas.—Electrical Railroad.—The Austin Rapid Transit Railway Co., operating an electrical railroad, has amended its charter, increasing capital stock from \$200,000 to \$350,000.

Baltimore, Md.—Cable Railroad.—The Baltimore Traction Co. has awarded contract to E. D. Smith & Son for the extension of its cable system, previously reported. Work is to commence at once, and it is expected to complete the work in 6 months. The cost will, it is stated, be about \$2,000,000.

Bishopville, S. C.—Railroad.—The Bishopville Railroad Co. will apply to the legislature at its next session for authority to extend its railroad in a general northerly or northwesterly direction as far as the North Carolina State line; also to extend said road from Atkins in a south or southeasterly direction to some point on the North Carolina or the Central Railroad of South Carolina.

Burnet, Texas.—Railroad.—The Austin & Northwestern Railroad (office, Austin), the gauge of which is now being made standard, will, it is said, be extended from Burnet to Llano, a distance of 40 miles, if Austin subscribes \$30,000 and Llano \$65,000.

Carrollton, Ky.—Electrical Railroad.—A route for a railroad has, it is stated, been surveyed from Carrollton via New Liberty to Sparta for the F. & A. Cox Co. The impression is that they contemplate building an electrical railroad.

Charleston, S. C.—Railroad.—The Ashley River Railroad Co. will build a 5-mile extension of its line towards Charleston. A. F. Ravenel, president, can give particulars.

Climax, Ga.—Railroad.—A bill has been introduced in the legislature incorporating the Tobacco Belt & Florida Railroad Co. to build a railroad from a point on the Savannah, Florida & Western Railroad between Climax and Faceville to the Florida line in Decatur county. M. Nicholson, T. W. Lester, G. P. Wood, C. H. Thomas and others are named as incorporators. The capital stock is \$50,000.

Cumming, Ga.—Railroad.—A company represented by T. C. Hampton, of Atlanta, has submitted a proposition to build a railroad from some point on the Atlanta & Charlotte Air Line to Cumming.

Dandridge, Tenn.—Electrical Railroad.—The Dandridge, New Market & Indian Cave Rapid Transit Railway Co., recently mentioned, has been chartered with W. F. Park, president; J. D. Robinson, of Knoxville, general manager, and C. C. Willis, engineer. A surveying corps, in charge of W. C. Crozer, has commenced surveying the route. The road will, it is understood, be operated by electricity. The capital stock is \$200,000.

Daytona, Fla.—Railroad.—The Halifax & Indian River Railroad Co. has been organized by Robbins & Graham, of Titusville, and others to build a railroad from Daytona, on the Halifax, to Titusville, on the Indian river, a distance of 50 miles. The capital stock is \$500,000.

Ducktown, Tenn.—Belt Railroad.—A belt railroad is reported as to be built.

Easley, S. C.—Railroad.—John Ferguson, of Greenville, is said to be interested in a project to build a railroad from Easley to Pickens.

Giddings, Texas.—Railroad.—It is stated that engineers are now at work, under the direction of U. Lott, president of the San Antonio & Aransas Pass Railway (office, San Antonio), surveying the railroad lately mentioned (under Alice) from Giddings to Velasco.

Glenn Springs, S. C.—Railroad.—The Glenn Springs Railroad Co., H. S. Simpson, president, will probably soon commence work on its railroad.

Glyndon, Md.—Street Railway.—A company to be organized to develop the Banks property will, it is stated, construct a street railway. C. Ridgely Goodwin can give information.

Jesup, Ga.—Railroad.—A bill has been introduced in the legislature chartering the Wayne Southern Railroad Co. to build a railroad from Jesup, in Wayne county, and Sand Hills, in said county, in a southerly or southeasterly direction to or near Waynesville. The capital stock is \$100,000.

Jesup, Ga.—Railroad.—The Jesup & Waynesville Railroad Co., mentioned in last issue as applying to the legislature for a charter, will build a railroad. P. D. B. Stansell is president of the company, and can give particulars.

Johnson City, Tenn.—Railroad.—A. W. Molesworth, chief engineer of the Charleston, Cincinnati & Chicago Railroad (office, Charleston, S. C.), is credited with the statement that the work of completing that portion of the road between Johnson City and Minneapolis, Va., a distance of 90 miles, would in all probability be commenced this month.

Jonesboro, Tenn.—Railroad.—Washington county will probably hold an election to consider the subscription of \$100,000 to the Louisville, Cumberland Gap & Atlantic Railroad, and \$50,000 to the Unaka & Nola Chucky Railroad.

Leroy, W. Va.—Railroad.—Thomas Pettigrew, of Parkersburg, chief engineer of the Ravenswood, Spencer & Glenville Railway Co., writes: "We expect to begin laying track by September 1 on the portion of our road between Leroy and Spencer, 16 miles. We have no present intention of extending this line further than Spencer, and that point is our present terminus."

Morristown, Tenn.—Railroad.—Hamblen county has voted to issue \$25,000 in bonds to aid in the construction of the Unaka & Nola Chucky Railroad, referred to in last issue (under Embreeville).

Paragould, Ark.—Railroad.—The Paragould & Buffalo Island Railway Co. contemplates, it is stated, the extension of its railroad to the Mississippi river, and ultimately to Memphis, Tenn.

Paris, Ky.—Railroad.—E. P. Reynolds, of Chicago, Ill., is reported as securing contract for building the Kentucky Midland Railroad (office, Frankfort), recently mentioned, from Paris to Salt Lick, a distance of 46 miles.

Pemberton, Fla.—Railroad.—Contract for the extension of the South Florida Railroad (office, Sanford) from Pemberton Ferry north has been awarded to Morgan, Reynolds & Walker, of Lakeland, Fla.

Reisterstown, Md.—Railroad.—The Northern Central Railway Co. (office, Baltimore) has been surveying the railroad from Green Spring Junction to Westminster, mentioned in last issue, with a view, it is stated, of extending its Green Spring branch to that town.

Roanoke, Va.—Electrical Railroad.—The Roanoke Electric Construction Co. recently chartered with E. W. Clark, Jr., of Philadelphia, Pa., president; S. E. Haas, of Chester, Pa., vice-president, and Charles A. Pearson, Jr., of Philadelphia, Pa., secretary, is authorized to build electrical railroads.

Rome, Ga.—Electrical Railroad.—The North & South Street Railway will, it is reported, be changed to the electric system.

Seivern, S. C.—Railroad.—The Carolina Midland Railroad Co. has completed survey for building its road from Seivern to Batesburg, and contract for grading will probably be let at an early date.

Smithsonia, Ga.—Railroad.—Work has been commenced on the Smithsonia, Danielsville & Carnesville Railroad, as lately stated.

Tallahassee, Fla.—Railroad.—Contracts, it is reported, have been closed for the completion of the Carrabelle, Tallahassee & Georgia Railroad, previously mentioned, to Thomasville, Ga., and work will commence by November 15.

Taylor, Texas.—Railroad.—The organization of the Taylor, Bryan & East Texas Railway Co. is contemplated to build a railroad from Taylor via Lexington, Caldwell, Bryan and Madisonville to Trinity. W. A. Price, of Madisonville; F. M. Mundine, of Lexington; S. E. Barnes, of Trinity; J. A. Gano, of Taylor, and others are named as directors.

Trinity, Texas.—Railroads.—E. B. Seay, of Madisonville; T. S. Henderson, of Cameron; E. T. Walker, of Trinity, and others are named as board of directors for the Trinity, Cameron & Western Railroad Co., referred to in last issue. The road is to run from Trinity via Madisonville, Wheelock, Hearne, Branchville, Maysville, Cameron and Davilla to Granger. The capital stock is to be \$200,000. The Taylor, Bryan & East Texas Railway Co., referred to in this issue, proposes building a railroad from Taylor to Trinity, covering part of the territory of the first-named road.

Velasco, Texas.—Railroad.—Edward S. Dreyer, of Chicago, Ill., contractor for building the Velasco Terminal Railway Co., from Velasco to Chenango, has sublet same to Burkett, Murphy & Burns.

Waynesville, Ga.—Railroad.—The South Brunswick, Atlanta & Northwestern Railroad, referred to in last issue, has been chartered by J. O. Bloss, George T. Dickson, Herbert Richmond, W. M. Walton and W. D. Wheelwright, of 83 Wall street, all of New York city. The road is to extend from Waynesville to Fort Valley. The capital stock is \$3,100,000.

"MONEY WANTED" advertised free of charge by the MANUFACTURERS' RECORD.

THROGGED WITH VISITORS.

Middlesborough Entertains 1,000 Within Six Days.

A Coming Fair at Arthur—Conventions and Excursions—The Cumberland Gap Hotel—New Corporations and Enterprises.

[Special Cor. MANUFACTURERS' RECORD.]
MIDDLESBOROUGH, KY., Aug. 29, 1891.

The week just ended has been devoted to conventions; assemblies and meetings of all kinds. The citizens of Middlesborough have entertained during the last six days fully 1,000 visitors, representing all sections of our country. On Tuesday evening 723 delegates from the Kentucky Sunday-school Union arrived here on two special trains and remained until yesterday evening. The majority of the men were lodged at the hotels, while the ladies were provided with accommodations in private residences. At the same time there were a number of prominent Masons in the city, who came to install Pinnacle Lodge of A. V. M. A large number of delegates also came to the city from various counties around Cumberland Gap for the purpose of organizing the Cumberland Gap Fair and Racing Association; to these add the regular quota of daily visitors, a large number of insurance men, and a number of Ohio people, who came down with the intentions of locating industrial plants in this city, and the number will easily run up in the close proximity of one thousand visitors.

This is mentioned to show the ability of Middlesborough and of her citizens in caring for large number of excursionists. Everybody had a good time, and the impressions made upon the guests were certainly of the most favorable, for expressions were heard in all quarters that many would like to make Middlesborough their future home. The excursionists were shown the attractions of the city, and were taken on special trains around the belt road to the coal mines, thence to the great iron and steel plant of the Watts Syndicate; the Hall & Vaughn Tannery; the Overbeck Brewery; the South Boston Iron Works; the Pattee & Garnkirk Brick Works, and many other industrial plants.

Early Friday morning two special trains conveyed the excursionists to Cumberland Gap, where trips were made to the Pinnacle, the caves, to Harrogate, and Cumberland Gap Park. The weather was delightful, the sun shining bright, and the cool breezes coming over the mountain tops made the temperature just what was required for trips and excursions of this kind.

The fair to take place at Arthur during the early part of October promises to be of unusual interest, and doubly attractive. Arthur is situated only a short distance from Harrogate and Cumberland Gap Park, where over a million dollars have already been expended in building hotels, and improving the grounds. A handsome race track is now being laid out, and it is proposed to offer handsome purses, so as to bring some of the best Kentucky horses to this section at that time.

The great hotel at Cumberland Gap Park is now completely under roof, and makes a magnificent appearance. It is 800 feet long, and contains 823 sleeping apartments. After the Ponce De Leon in Florida it is probably the largest hostelry in America. The managers propose to make it as attractive as it is imposing, and thousands of dollars are now being expended upon the beautiful grounds, so as to have them in readiness for the early season of 1892.

The principal attraction will be a race track, polo grounds, tennis courts and croquet lawns, with lakes where those who

are fond of boating can indulge in the healthy exercise to their hearts' content. The eminent New York physicians, who are in charge of this superb structure, propose to make the opening one of the most brilliant social events of the season. Special excursion trains will be run from New York, Philadelphia, Washington and Baltimore, to convey the elite of those cities to the opening ball.

The dingy canal running through Middlesborough, which for so many months has been the eye sore, not only to the citizens of this place, but also to the many visitors who came to Middlesborough, is gradually being transformed into a water-course of great beauty and attractiveness. The bed of the canal, as well as the sides, are lined with heavy oak planks, the borders are covered with cypress matting several feet thick, which gives the whole a very attractive appearance.

The reunion of Gen. Morgan's command, to be held in this city during the early part of next month, is attracting very great attention. It is estimated that over 4,000 war veterans will encamp in this section, and that the sound of the tattoo and reveille will remind many of similar scenes enacted at this place during the dark days of the war.

A volunteer fire department was organized here last week with many of the most prominent young men in town as members. At a meeting of the city council it was also decided to thoroughly equip the Middlesborough fire department with every requisite necessary to fight conflagration; ladders, hose, horses, etc., etc., have since been purchased, and it is pleasant to note that our citizens are now well secured from all danger of large fires.

On Saturday last a mortgage on the property of the American Association, Limited, in favor of the Central Trust Co. of New York for \$1,500,000 was filed at Pineville, the county seat of Bell county. The mortgage was to secure the issue of 300,000 pounds sterling of debenture bonds, the proceeds of which are to be expended in further developing the great railroad, mineral and timber interests of the Association, of which Middlesborough and Cumberland Gap are the centers.

Contracts have been signed by the managers of the American Association, Limited, and prominent firms in Pennsylvania for the digging of oil and gas wells in the immediate vicinity of Middlesborough, to determine if these are to be found in this section of the country. It is hoped and expected that both gas and oil will be discovered, and that at no great distance under the ground.

A new corporation has been organized under the title of the Electric File Renovating Co. with a capital of \$16,000 for the purpose of manufacturing electric renovating files. It is the intention of the company to build a factory in this city. The incorporators are C. Garston Smith, J. W. Forrest, C. T. N. Engles, Charles G. West and T. L. Bird.

O. O. HALL.

It looks as though the owners of the Chesapeake & Ohio Railroad had secured control of the Ohio & Mississippi, and that the foreign business of the latter road would be turned to Newport News.

Connection for Louisville from St. Louis and Cincinnati Express of Pennsylvania Railroad.

The Pennsylvania Railroad Company announces that St. Louis and Cincinnati Express No. 21, leaving New York daily at 3:00 P. M., Philadelphia 5:25 P. M., Washington 4:30 P. M., and Baltimore 5:32 P. M., and arriving at Cincinnati 11:25 A. M. next morning, will connect at Cincinnati with Louisville and Nashville Railroad for Louisville. The connection leaves Cincinnati daily at 11:25 A. M., and arrives at Louisville at 2:55 P. M.

Southern Financial News.

NEW BANKS.

Atlanta, Ga.—The bill relative to the Home Loan & Banking Co., mentioned last week as introduced in the legislature, is an amendment to the charter of that company.

Atlanta, Ga.—A bill has been introduced in the legislature to charter the Clegg Banking & Savings Co.

Austin, Texas.—W. R. Hamby and others have organized the American National Bank. The capital stock is \$100,000.

Bartow, Fla.—The Polk County National Bank has been organized to succeed the Polk County Bank with A. A. Parker, president; Z. King, vice-president, and Warren Tyler, cashier. The capital stock is \$50,000.

Brownwood, Texas.—The City National Bank is reported as contemplating the increase of its capital stock from \$75,000 to \$150,000.

Glencoe, Ky.—A bank is reported as to be organized with W. E. Sullivan, cashier. The capital stock is to be \$30,000.

Lexington, S. C.—The Lexington Savings Bank recently commenced business with Allen Jones, president, and W. P. Roof, cashier.

Montgomery, Ala.—The Farley National Bank, reported in last issue as suspending business temporarily, will probably resume at an early date.

Nocona, Texas.—E. Rine is president; D. C. Jordan, vice-president, and L. B. Smith, cashier, of the First National Bank lately reported.

Reynolds, Ga.—The Reynolds Exchange Bank has applied to the legislature for a charter.

Russellville, Ala.—A bank will probably be established. W. S. Wilson can give information.

Russellville, Ark.—The First National Bank, mentioned in last issue, succeeds the Citizens' Savings Bank. The capital stock is \$50,000.

Senatobia, Miss.—The Tate County Bank has been organized with P. A. Rush, cashier.

Smith's Grove, Ky.—The Deposit Bank of Smith's Grove has been reorganized with E. G. Wilcoxson, president, and B. S. Cooke, cashier.

Statesborough, Ga.—A bill has been introduced in the legislature to incorporate the Bank of Statesborough.

Velasco, Texas.—J. M. Moore and others will organize the First National Bank of Velasco.

Wheeling, W. Va.—The Wheeling Title & Trust Co. will add a banking department to its business.

Barnwell, S. C.—The Carolina Midland Railroad Co. has, it is stated, authorized the issuance of first mortgage bonds at the rate of \$12,000 per mile.

Buckhannon, W. Va.—The town has recently disposed of \$10,000 of bonds, \$8,000 of which were taken by the Buckhannon Bank at par.

Canton, Miss.—Madison county will probably issue new 20 or 25-year bonds to fund a \$75,000 bonded railroad debt, maturing in 1892. The county clerk can give particulars.

Clifton Forge, Va.—The Clifton Forge Banking & Construction Co. has declared a dividend of 5 per cent.

Danville, Va.—As stated in last issue, the Border Alliance Warehouse declared a dividend of 50 per cent.

Goldboro, N. C.—The city will vote September 10 on the question of issuing \$20,000 6 per cent. 25-year bonds, to build a market house and city hall.

Griffin, Ga.—The Griffin Cotton Mills has declared an annual dividend of 10 per cent.

Highland, Ala.—The town is placing on the market \$30,000 of sewer bonds. The mayor can give particulars.

Jonesboro, Tenn.—Washington county will consider on October 5 the question of holding an election to vote on a proposition to issue \$150,000 of railroad bonds.

Knoxville, Tenn.—The \$500,000 of improvement bonds lately reported as to be issued by the city will be of the denomination of \$1,000 each, bear interest at 5 per cent. and run 30 years. The mayor can give information.

Lynchburg, Va.—A syndicate including J. W. Carroll, J. H. Pettyjohn, R. H. T. Adams and others have, it is stated, purchased a controlling interest, numbering 530 shares at \$135 per share, in the First National Bank from J. F. Slaughter.

Meridian, Miss.—The city will vote September 30 on a proposition to issue \$75,000 of bonds for sewer purposes. The mayor can give information.

Morristown, Tenn.—Hamblen county has voted to issue \$25,000 of railroad bonds. The county clerk can give particulars.

Orangeburg, S. C.—The issuance of \$50,000 of railroad bonds is proposed. The mayor can give particulars.

Pickens, S. C.—The issuance of \$20,000 of bonds for railroad purposes is proposed. The mayor can give information.

Sherman, Texas.—The issuance of \$10,000 of bonds is contemplated. J. W. Levy, mayor, can give particulars.

South Boston, Va.—The issuance of \$15,000 of street-paving bonds will be decided on September 16th by popular vote. The mayor can give particulars.

Real Estate Investments.

Investments in real estate are seldom unprofitable. Land is a class of property which may be expected to increase in value from year to year in a settled community, and is subject to few of the inconveniences of other classes of property. Unlike stocks, its value does not fluctuate each day; unlike chattels, it does not wear out and depreciate. In nearly every instance it steadily gains, and there are few places in which there is a loss in value, and this is due to some untoward accident such as the withdrawal of a large industry or the ravages of a storm. As a rule, when men invest in real estate, however much they may regret the bargain immediately after its consummation, they are relieved of all anxiety by circumstances of which they may not have dreamed, or the gradual and steady rise in values of the property purchased merely through accretions resulting from denser settlement.

The increase of population makes increased numbers to be housed and requires increased accommodations for business uses. The competition between buyers of lease privileges forces up rents, and the value of land follows the value of rents. Every year the field to become occupied becomes narrower, and the untenanted portion becomes more desirable and commands a higher figure, and it is this fact that makes the purchase of land in a growing community seldom a losing investment.—New York Journal of Finance.

THE S. C. Forsaith Machine Co., Manchester, N. H., answering a letter written on the expiration of advertising contract asking if the contract would be renewed, writes: "We are glad to renew the advertisement in question. We are also pleased to state that we believe your journal to be one of the best advertising mediums for the machinery trade published."

THE new glass works at Buena Vista, Va., went into operation August 31, and glass bottles and fruit jars were made in presence of a large crowd of spectators.

WARE & OWENS, 41 South Broad street, Atlanta, Ga., want all obtainable information relative to the tannery business. They desire to investigate new processes of tanning.

J. F. BARNES, Greenville, Miss., wants iron mantels and wall paper for a residence.

"Where Dollars Are Made."

Along the line of the beautiful Queen & Crescent Route are grand opportunities for settlers, manufacturers and general business enterprises. A journal with the title "Where Dollars Are Made" is issued by the above line, containing a vast amount of information about the New South and a topographical map showing the location of timber, mineral and cotton belts, etc. This is mailed free to any address on application to D. G. Edwards, general passenger and ticket agent Queen & Crescent Route, Cincinnati, O.

SECOND-HAND MACHINERY FOR SALE.
Planer, planes 54 in. wide, 2 1/2 ft. long. Betts.
Planer, planes 72 in. wide, 12 1/2 ft. long. L. W. Pond.
The above tools can be seen running.
Planer, planes 30 in. wide, 8 ft. long. D. W. Pond.
Planer, planes 30 in. wide, 5 ft. long. Cove M. Co.
Engine Lathe, 54 in. swing, 21 ft. bed. Putnam.
Engine Lathe, 24 in. swing, 20 ft. bed with three tool shafting rests. D. W. Pond.
Engine Lathe, 36 in. swing, 8 ft. bed, taper attachment. Wheeler.
Upright Drill, 30 in. swing. Putnam Machine Co.
2 Bement Double Stay Bolt Cutters.
1 3/4 in. Snyder Patent Upright Drill. New.
1 28 in. Snyder Patent Upright Drill. New.

GEORGE PLACE,
No. 120 Broadway, NEW YORK.

Baltimore Stock Exchange Quotations.

Reported by ALEXANDER BROWN & SONS, Bankers, Baltimore.

BALTIMORE, September 2, 1891.

	BID.	ASKED.
Virginia 3-4-5 10-40's	37	64
Virginia 3's, new	63	23
Virginia Consul Coupons, N. F.	20	25
Virginia 10-40 Coupons, N. F.	20	98
N. Carolina 4's	110	125
Norfolk Water 8's C.	100	101 1/2
Charlotte, Col. & Aug.	100	130
Wilmington & Weldon	100	118
Ga. Car. & N. 5's	100	103 1/2
Va. & Tenn. 8's	100	81
Atlanta & Char. 1st 7's	100	103 1/2
Atlanta & Char. Income 6's	100	103 1/2
Col. & Green. 1st 6's	100	103 1/2
Col. & Green. 2d 6's	100	103 1/2
Va. Midland, 2d 6's	100	103 1/2
Va. Midland, 3d 5's	100	103 1/2
Charlotte, C. & Aug. 1st 7's	100	103 1/2
Ga. Pacific 1st 6's	100	103 1/2
Ga. Pacific 2d	100	59
Cape Fear & Y. Valley 6's, A.	100	99 1/2
Cape Fear & Y. Valley 6's, B.	100	100
Cape Fear & Y. Valley 6's, C.	100	99 1/2

Foreign Exchange Quotations.

ALEXANDER BROWN & SONS.

BALTIMORE, September 2, 1891.

Sterling.—Steady.		Commercial.
60 days	48 1/2	48 1/2 @ 48 1/2
3 days	48 1/2	Latter for banks.
Francs.		Commercial.
60 days	52 1/2	52 1/2 @ 52 1/2
3 days	52 1/2	
Reichmarks.		Commercial.
60 days	95	60 days 94 7/16
3 days	95	3 days 95 1/2
Guilders.		Commercial.
60 days	40 1/2	60 days 39 11/16
3 days	40 1/2	3 days 39 15/16

SOUTHERN LOAN BOND INVESTMENTS.

[Under this head the MANUFACTURERS' RECORD will publish announcements, not exceeding ONE HUNDRED, four times free of charge. Only offerings of real estate loans and municipal, county and other bonds, accompanied by specific statement of amount, time, rate of interest and security, will receive free insertions in this column.]

WANTED \$5,000 FOR FIVE YEARS AT 8%, on a two-story brick building worth \$10,000, in Middlesboro, Ky., renting for \$1.08 per annum. Address ARTHUR, WEST & CO., Middlesboro, Ky.

WANTED \$6,000 FOR FIVE YEARS AT 7%, secured by first mortgage on valuable business property in Roanoke that cost \$11,000 over a year ago; now worth \$16,000. Owner intends building. Address W. S. POLE, Roanoke, Va.

\$7,500 WANTED FOR ONE YEAR on property worth from four to six times amount desired. Located in one of the richest counties in Southwest Virginia. Parties wishing the loan can give ample assurance of ability to meet payment. Interest paid quarterly if desired. Address A. care Manufacturers' Record.

8% GOLD WATER WORKS BONDS. THE undersigned offers for sale, at par and accrued interest, \$15,500 in 8% gold bonds, secured by first mortgage, in trust, on water works which cost more than double the amount of its bonded debt, and earned in 1890 18 1/2% on its capital stock, besides expenses and interest on bonds. Principal and interest payable in gold in New York; the interest semi-annually. An unquestionably safe and desirable investment. Full details on application. WM. F. PARRISH, Mills Building, 35 Wall Street, New York.

WANTS.

WANTED—OWNERS and Agents who have Timber Lands for Sale to send us your name and address. We have something of interest to communicate to you. SOUTHERN LUMBERMAN, Nashville, Tenn.

WANTED.—POSITION AS SUPERINTENDENT OF FERTILIZER WORKS. Nine years' experience; understands manufacture of Sulphuric Acid from pyrites or sulphur, use and management of Glover and Gay Lussac Towers. Address "R. E. E.," care MANUFACTURERS' RECORD.

FOR SALE.

Two Hydraulic Presses and Pumps,

One 2,800 tons capacity, the other 1,000 tons. Estimated weight of the first 40 tons, and of the second 27 tons. Have had but trifling usage. Full description and low prices upon application.

ADDRESS

S. C. FORSAITH MACHINE CO.
Machinists and General Machinery Dealers,
MANCHESTER, N. H.

FOR SALE CHEAP.

One First-Class Second Hand 100 Horse Power

18x30 FRICK HORIZONTAL ENGINE,

with Automatic Governor Wheel, Fly Wheel in six segments, 20 in. face by 10 ft. diameter, all complete and in A No. 1 condition. Also two second-hand BOILERS, 40 in. dia. by 30 ft. long, with one 12 in. flue in each boiler. Address

REUTER & MALLORY,
22 Light Street, BALTIMORE, MD.

WANTED.

Mineral Property and Town Site.

We have a special inquiry for a large boundary of well-timbered mineral land, with iron, coal and lime in cheap juxtaposition, and suitable for a great manufacturing center.

CABELL & MOSELEY,

LANDS, SECURITIES & INDUSTRIAL ENTERPRISES,

15 Whitehall Street, Room 18,

NEW YORK.

Florida Phosphate.

One or more parties wanted to join subscriber and take an interest in DEVELOPING A PHOSPHATE MINE in richest mining region of Florida. Total capital \$15,000; part already subscribed. New subscribers admitted on the ground floor. No high-priced lands to be purchased. UNLIMITED DEMAND for the product at high prices. Just the thing for persons of moderate means. No speculation and no risks to run, yet profit is enormous. Write for particulars Best of references.

"BOX 200,"

WINTER PARK, FLA.

FOR SALE.

GARNET MINE

And 2,000 acres of land, covered with large Oaks, Poplars, Chestnuts, Hickory, &c. Garnets for commercial use in large quantities are found on this property. Also Ochre and Corundum are found on it. The garnets are easy of access and easily worked. Located at Shooting Creek, Clay County, North Carolina. Also 600 acres or more of fine Hardwood Timber and Iron Ore lands in Macon County, North Carolina. The iron assays over 65% magnetic ore. Titles perfect. Price \$5 per acre. Investors at home or abroad desiring good iron and timber lands personally selected by me in the richest section of Western North Carolina, can address

ARTHUR STEWART,

2042 N. Tenth Street, PHILADELPHIA, PA.

A Splendid Bargain.

I have for sale THIRTY ACRES of Land, just 1 1/2 miles from the Postoffice and center of the city, at the very low price of \$700 per acre; 1/4 cash, and balance on time at 8 per cent. interest. This property is immediately on the Electric Car Line to Riverside Park, and may be divided into 200 residence lots, worth on an average of \$200 each.

Property will be withdrawn from the market after 1st October next if not sold.

ELIAS EDMONDS,

Office, Room 22 French Building,

SAN ANTONIO, TEXAS.



Fine Office Furniture and Folding Beds.

Brass and Wire Work. 215 Wabash Av. A. H. Andrews & Co., Chicago.

JOHN L. WILLIAMS & SON, BANKERS.

—RICHMOND, VA.
Our Manual of Investments for 1890, the largest work of the kind published by any banking house in America, (400 pages, octavo, cloth,) may be had without charge by clients, correspondents and those expecting to do business with us; by others at \$2 per copy.

Richmond Stock Exchange Quotations.

Reported by JOHN L. WILLIAMS & SON, Bankers,
Richmond.

RICHMOND, VA., September 1, 1891.

	BID.	ASKED.
North Carolina 4's, 1910.....	97½	
North Carolina 6's, 1910.....	123	
Virginia New 3's, 1912.....	63½	64½
Danville 5's.....	101	
Lynchburg, Va., 5's, 1915.....	102	
Petersburg, Va., 5's, 1915.....	104	
Norfolk, Va., 5's, 1915.....	104	
Richmond, Va., 5's, 1915.....	106½	
Atlanta & Charlotte Ry., 1st 7's, 1907.....	116	
Atlanta & Charlotte Ry. 6's, 1900.....	103	
Char., Col. & Aug. R.R. Gen. 6's, 1912.....	104	
Georgia Pacific Ry. 1st 6's, 1912.....	100½	
Georgia Pacific 2d 5's, 1913.....	59½	
Ga. Pacific Incomes, 5's.....	15	
Petersburg Railroad Stock.....	77½	
Petersburg Railroad Class A 5's, 1906.....	80	
Petersburg Railroad Class B 5's, 1906.....	105½	
Rich. & Danville R. R. Gold 6's, 1915.....	98	
West. N. Car. R. R. 6's, 1914.....	98	
West. N. Car. 1st 6's, C. 1914.....	94	
Northwestern N. Car. R. 1st 6's.....	94	
Atlanta & Charlotte R. R. Stock.....	95	
North Carolina Railroad Stock.....	110½	
R. F. & Pot. R.R. Div'd Obligations.....	112	
Virginia Midland Railway Stock.....		
Sloss Iron & Steel Co. Stock.....		
Sloss Iron & Steel Co. 1st 6's, 1917.....		
Sloss Iron & Steel Co. 2d 6's, 1918.....		

ALEX. BROWN & SONS

ESTABLISHED 1811.

Cor. Baltimore and Calvert Streets,
BALTIMORE, MD.

—AND—

BROWN BROTHERS & CO.

New York, Philadelphia and Boston.

Foreign and Domestic Bankers,

AND MEMBERS OF THE

Baltimore, New York and Philadelphia

Stock Exchanges.

(Private wire between Baltimore, Boston,

Philadelphia and New York.)

Interest allowed on deposits of

Banks, Bankers, Corporations and In-

dividuals (by agreement). Railroad,

Municipal and other Loans Negotiated.

BUY AND SELL BILLS OF EXCHANGE

on Great Britain and Ireland, France, Germany,

Holland, British West Indies and other foreign

points.

Issue Commercial and Travelers'

Letters of Credit.

IN STERLING, available in any part of the

world; and IN DOLLARS, for use in this

country, Canada, Mexico, the West Indies and

South America.

Make Cable and Telegraphic Transfers

of Money.

Drafts Collected in all parts of the World.

BROWN, SHIPLEY & CO., LONDON.

English Money Syndicate.

MOREHEAD & OGDEN

BANKERS,

No. 48 Exchange Place, New York.

—AND—

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PROPOSALS.

SEALED PROPOSALS will be received at the office of the Superintendent until 12 o'clock P. M. on the 15th day of September, 1891, for all the labor and materials required for new Sidewalks and Repairs to Areas of the U. S. Custom-House Building (Appraiser's Store) at St. Louis, Mo., in accordance with the drawing and specification, copies of which may be had on application at this office or the office of the Supervising Architect, Treasury Department, Washington, D. C. Each bid must be accompanied by a certified check for a sum not less than 25% of the amount of the proposal. The Department will reject all bids received after the time herein stated for opening the same, also bids which do not comply strictly with all the requirements of this invitation. Proposals must be enclosed in envelopes, sealed and marked "Proposal for New Sidewalks and Repairs to Areas for the U. S. Custom-House (old) at St. Louis, Mo.," and addressed to CHAS. K. RAMSEY, Superintendent. August 21, 1891.

SEALED PROPOSALS will be received at the office of the Supervising Architect, Treasury Department, Washington, D. C., until 2 o'clock P. M. on the 25th day of September, 1891, for furnishing and erecting complete one Electric Passenger and Freight Elevator in the U. S. Custom-house building at Wheeling, W. Va., in accordance with the drawings and specification, copies of which may be had on application at this office or the office of the Custodian at Wheeling, W. Va. Each bid must be accompanied by a certified check for a sum not less than two per cent. of the amount of the proposal. The Department will reject all bids received after the time herein stated for opening the same, also bids which do not comply strictly with all the requirements of this invitation. Proposals must be enclosed in envelopes, sealed and marked "Proposal for Electric Passenger and Freight Elevator for U. S. Custom-House building at Wheeling, W. Va.," and addressed to W. J. EDBROOKE, Supervising Architect. August 20, 1891.

SEALED PROPOSALS will be received at the office of the Supervising Architect, Treasury Department, Washington, D. C., until 2 o'clock P. M. on the 25th day of September, 1891, for all the labor and materials required for the Approaches to the U. S. Courthouse and Postoffice Building at Statesville, N. C., in accordance with the drawing and specification, copies of which may be had on application at this office or the office of the Superintendent at Statesville, N. C. Each bid must be accompanied by a certified check for a sum not less than 25% of the amount of the proposal. The Department will reject all bids received after the time herein stated for opening the same, also bids which do not comply strictly with all the requirements of this invitation. Proposals must be enclosed in envelopes, sealed and marked "Proposal for the Approaches to the U. S. Courthouse and Postoffice Building at Statesville, N. C.," and addressed to W. J. EDBROOKE, Supervising Architect. August 28, 1891.

SEALED PROPOSALS will be received at the office of the Supervising Architect, Treasury Department, Washington, D. C., until 2 o'clock P. M. on the 25th day of September, 1891, for all the labor and materials required for certain Miscellaneous Repairs and Decorative Painting to the U. S. Custom-House Building at Charleston, South Carolina, in accordance with the specification, copies of which may be had on application at this office or the office of the Superintendent at Charleston, S. C. Each bid must be accompanied by a certified check for a sum not less than 25% of the amount of the proposal. The Department will reject all bids received after the time herein stated for opening the same, also bids which do not comply strictly with all the requirements of this invitation. Proposals must be enclosed in envelopes, sealed and marked "Proposal for Miscellaneous Repairs to the U. S. Custom-House at Charleston, S. C.," and addressed to W. J. EDBROOKE, Supervising Architect. August 24, 1891.

SEALED PROPOSALS will be received at the office of the Supervising Architect, Treasury Department, Washington, D. C., until 2 o'clock P. M. on the 25th day of September, 1891, for all the labor and materials required for the Iron Stairs, Iron Work, &c., of Elevator Shaft for the United States Courthouse, Postoffice, &c., building at Denver, Colorado, in accordance with the drawing and specification, copies of which may be had on application at this office or the office of the Superintendent at Denver, Colorado. Each bid must be accompanied by a certified check for a sum not less than 25% of the amount of the proposal. The Department will reject all bids received after the time herein stated for opening the same, also bids which do not comply strictly with all the requirements of this invitation. Proposals must be enclosed in envelopes, sealed and marked "Proposal for Iron Stairs, Iron Work, &c., for the U. S. Courthouse, Postoffice, &c., building at Denver, Colorado," and addressed to W. J. EDBROOKE, Supervising Architect. August 7, 1891.

SEALED PROPOSALS will be received at the office of the Supervising Architect, Treasury Department, Washington, D. C., until 2 o'clock P. M. on the 25th day of September, 1891, for all the labor and material required for the Approaches to the U. S. Courthouse and Postoffice Building at Chattanooga, Tenn., in accordance with the drawing and specification, copies of which may be had on application at this office or the office of the Superintendent at Chattanooga, Tenn. Each bid must be accompanied by a certified check for a sum not less than 25% of the amount of the proposal. The Department will reject all bids received after the time herein stated for opening the same, also bids which do not comply strictly with all the requirements of this invitation. Proposals must be enclosed in envelopes, sealed and marked "Proposal for the Approaches to the U. S. Courthouse and Postoffice Building at Chattanooga, Tenn.," and addressed to W. J. EDBROOKE, Supervising Architect. August 29, 1891.

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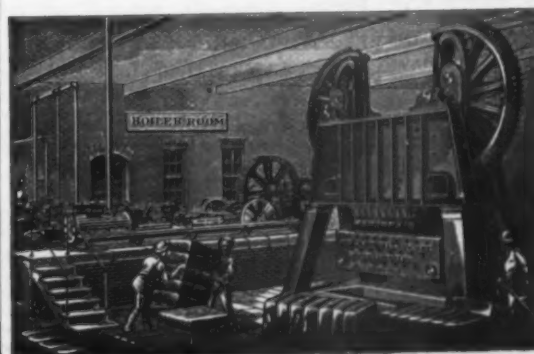
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*Means machinery is wanted, particulars of which will be found in "Machinery Wanted" columns.

†In correspondence relating to matters reported in this paper, it will be a favor if it is stated that the information was gained from the MANUFACTURERS' RECORD.

ALABAMA.

Alabama City (P. O. Gadsden).—Furniture Factory.—The furniture factory, previously mentioned as to be erected, will, it is reported, shortly be put in operation. The Alabama City Land & Improvement Co. can give particulars.

Anniston.—Iron Furnace.—The damage to the Woodstock Iron Co.'s No. 2 charcoal furnace, occasioned by the fire mentioned in this issue, will probably be repaired at once. The loss was about \$30,000.

Attalla.—Lime Works.—E. W. Godfrey and H. R. Godfrey, of Fort Payne, have, it is stated, completed arrangements for the erection of several lime kilns in Attalla, and are negotiating for the lease of the Moragne quarry.

Attalla.—Cotton Mill.—Contract has, it is stated, been let in last issue (under Carbon Hill), for the erection of the cotton mill previously mentioned as to be built by McNight & Haskell. The main building is to be three stories in height and 100x200 feet.

Attalla.—Foundry and Machine Shop.—W. G. Lunsford, of Birmingham, has, as reported in last issue, purchased property on which to erect a foundry and machine shop.*

Bessemer.—Plow Factory.—Arrangements have, it is stated, been completed for the establishment of a plow factory.

Bridgeport.—Corn Mill.—Henry Bros. will put in a corn mill with capacity for 12 or 15 bushels per hour.*

Carbon Hill.—Coal Mine.—J. A. Reid, referred to in last issue, is opening up a drift in coal.

Chickasaw.—Coal Mine.—The Chickasaw Coal Co., referred to in last issue (under Carbon Hill), has put down a new shaft to the "Jagger" seam, and intends opening a slope to same seam. It expects to erect a hoisting plant soon.*

Columbiana.—Cotton Mill.—A \$100,000 stock company is reported as having been organized for the purpose of erecting a cotton mill.

Crew's Depot.—Furniture Factory.—An Indiana party is reported as to remove his furniture factory to Crew's Depot.

Decatur.—Hub, Spoke, &c., Factory.—The woodenware, hub, spoke and stove factory, previously mentioned as to be established by A. C. Guth, is reported as having been put in operation.

Decatur.—Stave Mill.—W. D. Roberts, of Chattanooga, Tenn., will, it is reported, establish the stave mill lately mentioned.

Decatur.—Cigar Factory.—Byrd & Samer, of Atlanta, Ga., will, it is stated, establish a cigar factory in Decatur.

Florence.—Oil Wells.—B. H. Williams & Co. have leased, as mentioned in last issue, 60,000 acres of land, and are endeavoring to secure the development of oil wells on same.

Florence.—Pan Factory.—W. S. Canaday will start a baking-pan factory as lately reported.

Gate City.—Mining.—The Jefferson Mining Co. has been incorporated with Robert Warnock as president, and J. W. Sloss, secretary, for mining purposes.

Gurley.—Bucket Factory.—Vorenburg & Bro. are reported as having erected a bucket factory.

Gurley.—Pencil Factory.—The Eagle Pencil Co. is reported as enlarging its pencil factory by the erection of an additional building.

Highland.—Sewerage System.—The town will issue \$30,000 of bonds for the construction of a sanitary sewerage system. The mayor can give information.

Jasper.—Woodworking Factory.—The woodworking factory lately mentioned will be established. J. J. & C. D. Long are interested.

Luverne.—Barrel Factory.—C. R. Bricken will manufacture lime barrels.*

Midland City.—Publishing.—The Midland Clipper is the name of a new paper reported as now being published by H. G. Townsend.

Opelika.—Knitting Mill.—Hudmon Bros. & Co. will operate the Opelika Knitting Mill lately mentioned.

Opelika.—Oil Mill and Fertilizer Factory.—H. C. Jernigan and A. D. Lipscomb are reported as having purchased the oil mill and fertilizer factory of M. T. Trawick for \$15,000 and as to operate same.

Pollard.—Mill.—C. Y. Mayo, Jr., and D. C. Hunt have purchased an interest in the Pollard Mills, mentioned in last issue, and the plant will be put in operation. New machinery will probably be added.

Short Creek.—Saw Mill, etc.—Elijah Williamson is reported as erecting a saw mill and as to probably establish a grist and shingle mill in connection with same.

Springfield.—Ginnery.—A. W. Woodall is reported as erecting a cotton ginnery to be operated in connection with his grist mill.

ARKANSAS.

Little Rock.—Paper Mill.—A Buena Vista, Va., party is reported as endeavoring to organize a stock company for the purpose of erecting a paper mill in Little Rock.

Russellville.—Coal Mines.—The Russell Coal & Mining Co. has been incorporated by J. M. McCreary, of Adair county, Mo.; W. D. Russell and others, of Russellville, for the purpose of developing coal mines. The capital stock is \$25,000.

FLORIDA.

Bartow.—Canning Factory and Rice Mill.—Miller & Salisbury have, it is stated, received contract for the erection of a canning factory and the rice mill previously mentioned.

Bartow.—Phosphate Land.—The Tennessee & Florida Land Co., composed of W. M. Wilhoite, H. L. Davis and W. L. Walsh, of Chattanooga, Tenn., has, it is reported, purchased 107 acres of pebble phosphate land and optioned 120 acres near Bartow and will develop same.

Cedar Keys.—Preserving Factory.—The Gibbs Preserving Co., of Baltimore, Md., is reported as to remove its preserving factory to Cedar Keys.

Eau Gallie.—Canning Factory.—A stock company is reported as being organized for the purpose of erecting a canning factory.

Fernandina.—Shingle Mill.—Mahoney & Borden have, it is reported, erected a shingle mill.

Florida.—Phosphate Mines.—A stock company may probably be organized at Macon, Ga., for the purpose of purchasing and developing a phosphate mine in Florida. The Southern Phosphate Co., of Macon, Ga., can give information.

Inverness.—Phosphate Land.—J. C. Priest has purchased phosphate land from the Inverness Co.

Maccleenny.—Canning Factory.—W. M. Coward will erect the canning factory mentioned in last issue.

Marion County.—Phosphate Mines.—William Tudor, of Boston, Mass., has purchased 640 acres of phosphate lands in Marion and Levy counties, and, it is stated, commenced work preliminary to developing on an extensive scale.

Milton.—Grist Mill.—William Davidson is rebuilding his grist mill reported in last issue as burned.*

Palatka.—Dry-dock.—G. M. Davis is reported as constructing a dry-dock at his tank factory.

Punta Gorda.—Cigar Factory.—T. W. Rhodes & Co. are reported as to establish a cigar factory, operating under the name of the Caroyal Cigar Manufacturing Co.

Quincy.—Cigar Factory.—The Owl Cigar Manufacturing Co. will, it is reported, enlarge its cigar factory.

Sydney.—Phosphate Mines and Works.—Henry M. Mann, of Chicago, Ill., is reported as having purchased 470 acres of phosphate land near Sydney for \$23,000 and as to erect a plant for the development of same.

Tarpon Springs.—The Anclote & Rock Island Sponge Co., previously reported as organized by Hamilton Diaston, of Philadelphia, Pa., and others, has been incorporated. The capital stock is \$25,000.

Waldo.—Saw Mill.—J. B. Diat is reported as erecting a new saw mill.

GEORGIA.

Americus.—Broom and Whisk Factory.—M. E. Fulghum is reported as having established a broom and whisk factory in Americus.

Atlanta.—Tannery.—Ware & Owens will start a tannery.

Bufoed.—Gold and Silver Mines.—The Piedmont Gold & Silver Mining Co., organized at Fort Payne, Ala., with W. F. Smith, president, and J. H. Hatch, treasurer, is reported as developing gold and silver mines near Bufoed.

Cordele.—Woodworking Factory.—The woodworking factory lately mentioned as to be erected by A. Kirkman, of Montgomery, Ala., and V. L. Emerson, of Emerson, Fla., will, it is stated, have a capacity of 46 M feet of lumber per day.

Douglasville.—Bridge.—H. T. Cooper will receive bids until September 19 for the construction of a bridge across Dog river at Watkins' Mill. Plans and specifications can be seen on application.

Fannin County.—Mica Mines.—W. D. L. Robbins, D. M. Agey, V. W. Leavitt, J. S. Thrasher and B. H. Frazier have incorporated at Chattanooga, Tenn., the Chattanooga & North Georgia Mica & Mining Co. to develop mica mines in Fannin county.

Kensington.—Washing Machine Factory.—Morton Bros. have, it is stated, started a factory for the manufacture of the washing machine patented by N. J. Sweeney, of Columbus, Ind.

Newnan.—Electric-light and Power Plant.—The Newnan Light & Power Co., reported in last issue as chartered, has closed contracts for an Edison plant with capacity for 600 incandescent and 40 arc lights. The company has a 15-year contract to light the city at not less than \$2,800 per year.

Rome.—Improvements.—It is stated that a deal is pending for extensive improvements at New Rome. The New Rome Land Co. can give information.

Rome.—Electric-light and Power Plant.—The East & West Rome Street Railway Co. contemplates the erection of an electric-light and power plant.

Rome.—Ice Factory.—The stock company previously mentioned as being organized to establish an ice factory has been incorporated as the Rome Ice & Cold Storage Co. by J. C. Printup and others. The capital stock is \$30,000.

Savannah.—Water Conduit.—Robertson & Weaver, of Baltimore, Md., have received contract to build the masonry conduit for the water works lately reported at \$27,500, section G for \$10.45 per lineal foot, and insert the casting called for by section H for \$5. The Howard Harrison Iron Co., of Bessemer, Ala., has contract for the iron piping at \$21.75 per ton, and \$55 per ton for the special castings.

Tallahassee.—Land Improvement.—J. S. Ricketts, J. R. Crandall and L. F. Bellinger have organized at Centre, Ala., the Tallapoosa Land & Improvement Co. with a capital stock of \$50,000.

Thomasville.—Grist Mill and Gin.—The Alliance Mill & Gin Co. has been incorporated with N. E. Turner, president, and E. L. Neel, secretary, for the purpose of purchasing and operating the grist mill of J. L. Linton.

KENTUCKY.

Hardinsburg.—Gas Well.—The Eclipse Mineral & Gas Co. has sunk a gas well.

Leitchfield.—Brick and Terra-cotta Works.—P. Bannon, of Louisville, is reported as having purchased 50 acres of land near Leitchfield and as to start the manufacture of brick and terra-cotta.

Leitchfield.—Gas Wells.—The Natural Gas Co. is reported as to sink gas wells.

Louisville.—Furniture Factory.—H. Wolke & Bro. have, it is reported, erected a new building for their furniture factory.

Olympia.—Iron Furnaces, Mines, etc.—Gordan McKay, of Newport, R. I., N. S. Shaler, of Cambridge, Mass.; T. A. Doage, of Brookline, Mass.; L. A. Wyman, of Lynn, Mass.; S. J. Fearing, of Olympia, and others have incorporated the Rose Run Iron Co. The company is privileged to erect iron furnaces, develop iron ore, manufacture steel, etc. The authorized capital stock is \$500,000.

Owingsville.—Telephone Line.—J. B. Goodpaster, J. J. Nesbitt, J. M. Richart and others have incorporated the Owingsville & Preston Telephone Co.

Winchester.—Lumber Boom.—The Cincinnati Southern Lumber Co. is reported as building a lumber boom three miles in length. This company will, it is stated, operate the mill previously reported as to be erected by G. A. Roy.

LOUISIANA.

Monroe.—Saw and Planing Mill.—A. Benoit is preparing plans for the erection of a saw and planing mill for H. Herring.

New Orleans.—Elevators.—P. J. O'Reilly has petitioned the city council for authority to erect six or more elevators.

New Orleans.—Publishing.—The Louisiana Printing & Publishing Co. intend putting in a 10 horse-power engine.

New Orleans.—Wharf Construction.—The Louisiana Construction & Improvement Co. will, it is understood, expend \$500,000 in the construction of wharves, bulkheads and roadways.

New Orleans.—Iron Forge.—Louis Schultz, of 241 South Rampart street, has secured permission to erect and operate an iron forge.

New Orleans.—Pipe Works, &c.—M. N. Coe, Edward de Never, T. H. Roberts and others have incorporated the Coe Manufacturing Co., Limited, for the manufacture of the Coe automatic rain water cut-off, gutter piping, cisterns, etc. The capital stock is \$100,000.

Plaquemine.—Water Works.—The stock company lately reported as having been organized with J. A. Grace, president; A. N. Stine, vice-president, and David Altemus, secretary, to construct a system of water works will be known as the Plaquemine Water Works Co. The capital stock is \$15,000.

MARYLAND.

Baltimore.—Engine Works.—S. T. Williams, of 447 North Street, is endeavoring to organize a stock company for the purpose of manufacturing his steam engine.

Baltimore.—Bridge.—F. H. Smith will prepare plans and estimates for the new bridge to be built across Jones's Falls at Lexington street by the city. The city commissioner can give particulars.

Buckeystown.—Plow Factory.—G. J. Buckey, of Frederick; W. G. Baker, E. L. Keller and others have, it is stated, organized a \$25,000 stock company for the purpose of establishing a plow factory in Buckeystown.

Cumberland.—Machine Shops, &c.—The Baltimore & Ohio Railroad Co. (office, Baltimore) has, it is stated, purchased 65 acres of land from the Humbird Land & Improvement Co. on which to build the machine shops, etc., previously reported.

Frostburg.—Knitting Mill.—A new knitting mill is reported to be established.

Gorsuch Mills.—Cider Mill.—B. F. Jordan has, it is stated, put in a new cider mill with a capacity of 90 barrels per day.

Hagerstown.—Electric-light and Gas Works.—The gas works of the Hagerstown Heat & Light Co., lately reported as incorporated have, it is stated, been put in operation with a capacity of 125,000 feet of gas per day.

Hagerstown.—Electric light plant.—The United Silk Manufacturing Co. is putting an Edison incandescent electric-light plant of 210 lights capacity in its silk mill.

Hagerstown.—Publishing.—The Herald Publishing Co. has been incorporated with J. W. Cable as president, and purchased the works of Adams & Matthews, as reported in our last issue. This company will publish a daily newspaper to be called the Herald. The capital stock is \$10,000.

Highfield.—Land Development.—Edward and Earnest Hoffman, of Hagerstown, are reported as having purchased 66 acres of the Burham estate at Highfield and as to lay off in lots, etc.

Parsonsburgh.—Gas Wells.—John W. Wimbrow, referred to in last issue, has sunk two gas wells.

Washington, D. C.—Candy Factory.—The candy factory of G. J. Mueller, previously reported as to be erected at a cost of \$20,000, has been completed and is five stories in height, 25x127 feet.

Washington, D. C.—Sewerage System.—E. E. Barnes has received contract for the construction of the sewers lately referred to. The contract amounts to about \$10,000.

MISSISSIPPI.

Enterprise.—Cotton Mill and Iron Furnace.—The Enterprise Manufacturing & Development Co. has, it is stated, completed financial arrangements for building the iron furnace previously mentioned; also for the erection of a cotton mill.

Meridian.—Sewerage System.—The city will hold an election on September 30 to decide as to the issuance of bonds for the construction of the sewerage system previously mentioned. The mayor can give further particulars.

Meridian.—Novelty Works.—M. J. Kirby, of 615 Hazel street, Lansing, Mich., is corresponding relative to the establishment of a factory in Meridian for the manufacture of a woven wire spring bed, an elevated invalid spring bed, a patent stave basket, etc.

Vicksburg.—Sash and Door Factory.—It is contemplated to rebuild the sash and door factory of S. Spengler, recently reported as burned.*

NORTH CAROLINA.

Burke County.—Mining.—Mr. Boyd has, it is reported, sold the Carolina Queen mine for \$12,000.

Burlington.—Publishing.—It is rumored that George Terrell, of Durham, and W. E. Hay will publish a newspaper in Burlington.

Dallas-Cotton Mill.—The Dallas Cotton Mill Co. is the name of the stock company previously reported as organized by L. M. Hoffman and others to erect a cotton mill. Work has been commenced on the building.

Davidson College-Cotton Mill.—Stough, Cornelius & Co. have added to their mill a building 100x50 feet, and placed orders for 2,000 spindles. They will put in an automatic sprinkling outfit.*

Elizabeth City-Building Material Factory.—C. E. J. A., A. K. and J. P. Kramer and R. O. Preyer and others have incorporated under the title Kramer Bros. & Co. for the purpose of manufacturing lumber, furniture, building material, dealing in real estate, &c. The company will manufacture principally house-building material. The capital stock is \$12,500.

Franklin-Buggy Factory.—Eli Myers & Sons are reported as erecting a new blacksmith shop; also as putting in machinery for the manufacture of buggies.

Henderson-Electric light Plant.—The Henderson Light & Power Co., lately reported as organized to operate the electric-light plant of the Henderson Electric & Gas Light Co., which it had recently purchased, has been incorporated with a capital stock of \$10,000.

High Point-Improvement.—The Central Improvement Co. is the name of the improvement company reported in last issue as organized. F. M. Pickett can give particulars.

Louisburg-Tobacco Factory.—The Louisburg Building & Improvement Co., reported in last issue as organized, has been incorporated with a capital stock of \$100,000 and commenced the erection of its leaf tobacco factory.*

Louisburg-Tobacco Factories.—C. M. Cooke and George H. Cooper are each erecting a leaf tobacco factory.

Mocksville-Planing Mill.—Rice Bros., of Woodleaf, are reported as to erect a planing mill in Mocksville.

Mooresville-Cotton Mill.—Efforts are being made to organize a stock company to build a cotton mill. J. W. Brown can give information.*

Mooresville-Sash, Door and Blind Factory.—J. W. Brown will erect machinery for manufacturing sash, doors and blinds.*

Mooresville-Brick Works.—J. W. Brown, referred to in last issue under Mt. Zion, will put new machinery in his brick works.*

New Berne-Ice Factory.—The New Berne Ice Co. will, it is reported, put in new machinery to increase the daily capacity of its ice factory from 8 to 16 tons.

North Wilkesboro (P. O. Wilkesboro)-Wagon Works.—Winston-Salem parties will locate wagon works in North Wilkesboro. The Winston Land & Improvement Co., of Winston, can give particulars.

North Wilkesboro (P. O. Wilkesboro)-Shuttle-block Factory.—W. B. Henry contemplates starting a shuttle-block factory.*

North Wilkesboro (P. O. Wilkesboro)-Medicine Factory.—Thomas A. Church, of Ashe county, N. C., will locate a root and herb laboratory in North Wilkesboro.

North Wilkesboro (P. O. Wilkesboro)-Saw Mill, etc.—Absher & Church will erect a saw mill and sash and blind factory.

Ramseur-Chair Factory.—A. W. E. Caples has, it is stated, enlarged his chair factory.

Rutherford-Tannery.—Frank Reynolds, of Ayr, referred to in last issue, will build a steam tannery in Rutherford.

Salem-Tobacco Factory.—W. W. Wood & Co., of Raleigh, have, it is stated, contracted for the erection of a large tobacco factory in Salem.

Salisbury-Gold Mine.—Western capitalists are reported as having purchased the old Barringer gold mine, and as to develop same.

Tarboro-Fertilizer Factory.—F. S. Royster is erecting a fertilizer factory, as recently reported.

Tarboro-Peanut-cleaning Mill.—Contract has been let for erecting the building for the peanut-cleaning mill lately reported as to be started by E. V. Murphy, George Howard, Jr., and others.

Tarboro-Bag Factory.—B. J. Keech contemplates starting the manufacture of bags for peanuts and other uses.

Wilmington-Rice-cleaning Mill.—A. W. Rieger is erecting a rice-cleaning mill.

SOUTH CAROLINA.

Blackville-Repair Shops.—The Carolina Midland Railroad Co. has, it is stated, selected site for its repair shops, previously mentioned as to be built. Mike Brown, vice-president, of Barnwell, can give information.

Blacksburg-Iron Furnace.—The stockholders of the Magnetic Iron & Steel Ore Co., previously referred to, have, it is stated, pledged \$70,000 with which to build an iron furnace near Blacksburg.

Charleston-Artesian Well.—The Charleston Water Co. is reported as to sink a new artesian well.

Charleston-Phosphate Mines.—The Archdale Phosphate & Mining Co., reported in last issue as

chartered, purchased and is developing the Archdale mines on Ashley river, near Charleston.

Etta Jane-Cotton Gin.—W. R. Walker is reported as erecting a cotton gin.

Greenwood-Fertilizer Factory.—D. C. Ebaugh, of Greenville, lately mentioned as having made a proposition to organize a \$100,000 stock company to erect a fertilizer factory in Greenwood, will, it is stated, with L. W. Parker, W. P. Addison and others, incorporate the Gate City Phosphate Co. for the purpose of erecting the works.

Lamar-Publishing.—A stock company is reported as to publish a newspaper in Lamar. T. E. Earley can give particulars.

Union-Steam Laundry.—L. G. Young is president, and G. H. Oetzel, secretary, of the Union Steam Laundry, reported in our last issue as organized to establish a steam laundry.*

TENNESSEE.

Allentown-Iron Mines.—The development of iron mines near Allentown has been, it is reported, commenced under the direction of Abe Hathaway to supply ore to the steel plant mentioned in this issue.

Allentown-Steel Plant.—J. T. Ambrose, of Knoxville, has, it is stated, organized a stock company in connection with J. N. Carriger, F. A. Stratton and T. M. Allen, of Allentown, to build the steel plant previously mentioned. Contract, it is said, has been signed for the erection of the works, which are to include a main building 90x90 feet and a building 30x35 feet to be used for making gas to supply the ovens. The steel is to be manufactured by the Conly process, and the plant will have a capacity for 30 tons.

Athens-Land.—The Grady Land Co., of McMinn county, has been incorporated.

Bristol-Bridge.—The Bristol, Elizabethton & North Carolina Railroad Co. is reported as to build an overhead bridge on Anderson street in connection with the city.

Chattanooga-Sewer-pipe Works.—Montague & Co., as stated in last issue, have added the manufacture of fire-proofing to their sewer-pipe works.

Chattanooga-Fertilizer Factory.—D. P. Montague will start a fertilizer factory, as stated in last issue.*

Chattanooga-Broom and Brush Factory.—The Crescent Manufacturing Co. has removed its broom and brush factory to larger quarters and will add new machinery for making all kinds of brooms and brushes.

Ducktown-Copper Mines.—F. M. Hight, of Anniston, Ala., referred to in last issue, writes: "We have leased Polk County Mining Co.'s property. There will have to be several months' experimental work done before it shall be determined what line of operation will be pursued."

Ducktown-Electric-light and Power Plant.—The Polk County Mining Co. is reported as to erect an electric-light and power plant at a cost of \$10,000.

Harriman-Woodworking Factory, etc.—The S. K. Paige Lumber & Manufacturing Co., referred to in last issue will erect a saw mill and woodworking factory.*

Jackson-Canal.—J. J. Williams has, it is stated, completed the survey of the routes for the proposed Mississippi & Tennessee River canal. The estimated cost of constructing the canal is \$3,000,000.

Jackson-Broom Factory.—Mr. Shaffer is endeavoring to organize a stock company for the purpose of enlarging his broom factory.

Lenoir-Furniture Factory and Saw Mill.—The company previously reported as organized to erect a furniture factory and saw mill in Lenoir is the Lenoir City Lumber & Manufacturing Co. W. H. Young, of Kenton, Ohio, is president; William Edmiston, of Springfield, Ohio, vice-president, and W. W. Avery, of Asheville, N. C., secretary. The saw mill was moved from Bushnell, N. C., occupies a building 150x65 feet and has a daily capacity of 50 M feet. The furniture factory is from Asheville, N. C., and a main building, two stories, 200x60 feet, storeroom 100x60 feet, finishing-room 200x60 feet and two large dry-kilns will be erected for the plant. The company has a capital stock of \$200,000.

Madisonville-Planing Mill, Sash, Door and Blind Factory.—J. Watts, of Knoxville, will, it is stated, remove his planing mill, sash, door and blind factory to Madisonville, provided sufficient inducement is offered.

Nashville-Electric-light Plant.—The Citizens' Rapid Transit Co. is reported as to establish an electric-light plant.

Paris-Tobacco Factory.—N. M. Blakemore, J. E. Walker, W. A. Carter and others have incorporated the Empire Tobacco Works with a capital stock of \$15,000 and will erect a two story tobacco factory 55x70 feet with a daily capacity of 1,000 pounds.

Tazewell-Lime Works.—The Tazewell Cement & Lime Co., M. C. Pelton, of Christiansburg, Va., manager, is building lime-kilns at New Tazewell.*

TEXAS.

Astoria-Cotton Gin.—The Astoria Alliance No. 50 has, it is stated, organized a stock com-

pany for the purpose of erecting a cotton gin. C. D. Wheatly can give particulars.

Baird-Water Works.—The Baird Water & Power Co., lately reported as chartered, will construct water works. The capital stock is \$30,000.*

Dexter-Distillery.—O. P. Elliot contemplates putting in distillery outfit.*

Ennis-Publishing.—T. G. Locks will, it is stated, publish a newspaper to be called the Telegram.

Fort Worth-Malt Factory.—A Milwaukee (Wis.) syndicate is reported as to erect the malt factory at Fort Worth mentioned in our last issue. The buildings are reported as to consist of a kiln, germinating drums, boiler-house, engine-house, tanks, etc., and a 60,000 bushel elevator; the capacity to be 500,000 bushels per year. F. M. Clarke, secretary Chamber of Commerce, can give particulars.

Fort Worth-Carpet-cleaning Works.—As lately stated, C. H. Martin has established steam carpet-cleaning works.

Hallettsville-Packing House.—W. J. Chapman is reported as establishing a packing house.

Jefferson-Saw Mill.—W. K. Henderson, operating a saw mill, has incorporated the W. K. Henderson Lumber Co.

Lampasas-Cigar Factory.—The cigar factory lately mentioned has been established by S. J. Payne.

La Grange-Electric-light Plant and Water Works.—Contract has, it is reported, been let for the construction of the water works and erection of the electric-light plant previously reported. The mayor can give information.

Lufkin-Saw Mill.—The Clawson Lumber Co. will, it is stated, rebuild at once its saw mill reported in this issue as burned.

Marshall-Furniture and Woodworking Factory.—J. H. Van Hook and McKiel, previously reported as having established a furniture and woodworking factory, have, with others, incorporated the Marshall Furniture & Manufacturing Co. for the purpose of operating same. The capital stock is \$10,000.

Morgan-Machine Repair Shops.—It is reported that machine repair shops are being erected.

Paris-Cotton Gin.—B. J. Baldwin, Jr., referred to in last issue, has erected a cotton gin.

Seymour-Artesian Well.—The sinking of an artesian well is talked of. The mayor can give information.

Sweet Water-Plaster Works.—The Texas Plaster Co. is reported as having purchased the works of the Franco Land Co., and as to enlarge, put in new machinery and operate same.

VIRGINIA.

Buena Vista-Fire-brick Works.—The Buena Vista Fire Clay Co., referred to in last issue, is building two additional kilns at its fire-brick works.

Carter's Bridge-Flour Mill.—It is reported that R. J. Hancock has put patent roller process machinery in his flour mill.

Clifton Forge-Iron Works.—Rumor has it that M. E. Ingalls, now in Europe, is arranging for the erection of a large iron-working industry in Clifton Forge.

Goshen-Steel Plant.—Baltimore capitalists are, it is stated, negotiating for the establishment of a steel plant in Goshen. The Goshen Land & Improvement Co. can probably give information.

Ivanhoe-Iron Furnace.—The New River Mineral Co. is reported as relining and otherwise improving its iron furnace.

Lexington-Stone Quarries.—The Lexington Quarry Co., reported in our last issue as organized to develop stone quarries, has been incorporated.

Newport News-Cotton Mill.—Northern parties are reported as offering to remove their cotton mill to Newport News, provided the citizens will subscribe \$10,000 in stock to the plant. The Old Dominion Land Co. can give information.

Norfolk-Peanut-cleaning Mill.—The Merchants & Farmers' Peanut Co. will rebuild its peanut-cleaning mill reported in last issue as burned.*

Norfolk-Corn Mill.—Lyman Field & Co. are rebuilding their corn mill, recently burned. The capacity is to be 2,000 bushels per day.

Norfolk-Rolling Mill.—It is reported that G. W. Goddard, of Roanoke, has organized a stock company to build the rolling mill recently mentioned. The company, it is said, has optioned 40 acres of land, and the Virginia Construction Co., recently chartered, is reported as to erect the building for the plant.

Riverton-Flour Mill.—The Riverton Mills Co. has, it is stated, put new machinery in and improved its flour mill.

Roanoke-Pantaloons Factory.—Hobbs & Baker, Harrell Bros., Rosenbaum Bros., and Snyder & MacBain have, it is stated, established the Old Dominion Pantaloons Factory, for the manufacture of pantaloons.

Roanoke-Improvement.—The New York Building & Improvement Co. has been organized with

J. B. Harrell, president; S. B. Butler, of New York, vice-president, and E. J. Bond, secretary, to deal in and improve real estate. The capital stock is \$200,000.

Roanoke-Granite Quarries.—The Burkeville Granite Co. has been incorporated with W. L. Reid, president; C. G. Cushman, vice-president, and J. R. Collingworth, secretary. The capital stock is \$30,000.

Salem-Mineral Land.—Clay Chapman has, it is reported, optioned several thousand acres of mineral land in Southwest Virginia.

South Boston-Street Paving.—The city will hold an election on September 16 to decide as to the issuance of \$15,000 of bonds for the purpose of paving Main street. The mayor can give information.

Stanley-Carriage Factory.—Charles Cline-din, of New Market, is reported as erecting a carriage factory in Stanley.

Suffolk-Water Works.—The Suffolk Land Co. is reported as to construct a system of water works in the east end.

Suffolk-Brick Works.—D. C. Harrell & Co. is reported as to put new machinery in his works for the manufacture of pressed bricks.

WEST VIRGINIA.

Buckhannon-Creamery.—The creamery previously mentioned as to be erected by a stock company organized by Chicago, Ill., and other parties has, it is stated, been completed.

Charlestown-Steam Laundry.—T. R. Baker and J. Gunther are reported as to establish a steam laundry.

Elkton-Bark and Stave Mill.—C. R. Madeira is reported as having erected a bark and stave mill.

Glendale-Coal Mine.—The Glendale Co. is reported as to sink a new shaft at its coal mines.

Kellogg-Powder Factory.—The powder factory recently destroyed by an explosion is being rebuilt. W. H. Clements can give particulars.

Martinsburg-Publishing.—A. E. Aler is reported as to publish a daily newspaper, to be called the World.

Martinsburg-Sugar Refinery.—Albert Ols-gueski, representing a syndicate of capitalists, among whom is said to be Claus Spreckles, is investigating with a view of organizing a \$450,000 stock company for the purpose of establishing a \$350,000 beet-sugar refinery in Martinsburg.

Moundsville-Buggy and Carriage Factory.—Contract has been closed for the removal of a buggy and carriage factory from Pennsylvania to Moundsville. The Moundsville Mining & Manufacturing Co. can give particulars.

Piedmont-Paper Mill.—The West Virginia Paper Co. has contracted for machinery for its paper mill mentioned in last issue.

Point Pleasant-Furniture Factory.—J. P. R. B. Smith and others have incorporated the Point Pleasant Furniture Co. to establish the furniture factory lately mentioned. The capital stock is \$100,000.

Red Sulphur Springs-Bridge.—Monroe county will, as stated in last issue, build an iron bridge across Indian creek at Red Sulphur Springs. J. C. McClagherty, county clerk, Union, W. Va., can be addressed.

Webster county-Timber Land.—Hon. Andy Edmiston, Hon. C. P. Dorr and Hon. J. N. Camden, of Parkersburg, have, it is stated, purchased from Messrs. Paul, Stifel, Vance, Reymann and others 5,331 acres of timber land in Webster county for \$40,000.

Wheeling-Glass Factory.—The United States Glass Co. of Pittsburg, Pa., has, it is stated, purchased and will operate the glass factory of the Central Glass Co. at Wheeling.

BURNED.

Anniston, Ala.—The Woodstock Iron Co.'s No. 2 charcoal iron furnace damaged by fire; loss about \$30,000.

Charleston, Ark.—The courthouse of Franklin county.

Chesterfield County, Va.—The saw mill of Oliver & Pollard in Chesterfield county.

Greenville, Ala.—The grist mill and ginnery of Smythe & Rhodes near Greenville.

Heathsville, Va.—The saw mill of Richard Sydnor.

Lufkin, Texas.—The saw mill of the Clawson Lumber Co., near Lufkin; estimated loss, \$65,000.

Norfolk, Va.—The cotton gin of Howard & Hunter, at Apex.

Palestine, Texas.—The cotton gin and grist mill of B. F. Rogers near Palestine.

Putaski, Tenn.—The planing mill, saw mill, etc., of William & Watson; loss \$20,000.

Raleigh, N. C.—The Raleigh ice factory; estimated loss \$10,000.

TO SOUTHERN corporations, bankers and brokers: The MANUFACTURERS' RECORD will give investment offerings four insertions free, announcements not to exceed one inch in space.

Building Notes.

Atlanta, Ga.—It is stated that 200 dwellings will be erected at Manchester. The Manchester Land & Improvement Co. can give particulars.

Atlanta, Ga.—Club Building.—The erection of a club building for the Atlanta military companies on the property of the Manchester Land Co. is proposed.

Augusta, Ga.—School Buildings.—W. H. Stallings has the contract for erecting the two-story school building, 70x108 feet, for colored pupils mentioned in last issue; also contract for addition to fifth ward school building.

Baltimore, Md.—Building permits have been granted to Thomas E. Bond for the erection of 6 three-story brick buildings and a two-story brick building; J. R. Wheeler, 3 two-story brick buildings; Peter Schmidt, a two-story brick building; Charles Milske, 6 two-story brick buildings; Henry Wessels, 4 two-story buildings; W. E. Warfield, 22 two-story buildings, and N. A. Boyd, a three-story building.

Barnwell, S. C.—College.—A \$10,000 college building will probably be erected. G. D. Bellinger can give information.

Birmingham, Ala.—Church.—The Cumberland Presbyterians contemplate building an edifice 100x100 feet.

Birmingham, Ala.—The Marshall-Bates Construction Co. has been incorporated by A. Marshall and R. M. Bates with a capital stock of \$10,000 to erect buildings.

Blowing Rock, N. C.—Hotel.—A \$75,000 hotel is reported as to be built. The Green Park Improvement Co. can give information.

Bridgeport, Ala.—Henry Bros. have contract for erecting the two-story brick building, 70x75 feet, for N. K. Spiller, mentioned in last issue. C. J. Edwards prepared the plans, and the cost is \$5,000.

Bridgeport, Ala.—Church.—The Baptists will build the church lately noted at a cost of about \$3,000. No contracts have been let. R. B. McBride can give information.

Brookland, D. C.—Church.—J. G. Meyers, of Washington, D. C., will prepare plans for the erection of an edifice for the Baptists.

Brunswick, Ga.—Warehouse.—The warehouse lately reported as to be built for the Standard Oil Co. will cost about \$5,000.

Central City (P. O. Huntington), W. Va.—Contract has been awarded to Ernest Rohrkaste, of Pennsylvania, for the erection of the hotel for Z. T. Vinson and Oscar Jones, lately reported. It is to be three stories high and cost from \$10,000 to \$12,000.

Charleston, S. C.—Public Building.—W. J. Edbrooke, supervising architect, Treasury Department, Washington, D. C., will receive proposals until September 24 for all the labor and material required for certain miscellaneous repairs and decorative painting to the United States custom-house building at Charleston.

Charleston, W. Va.—A branch of the Virginia Industrial, Mercantile & Building Association of Richmond, Va., has been organized with G. B. Howard, president, and B. Prillerman, secretary.

Chattanooga, Tenn.—Public Building.—W. J. Edbrooke, supervising architect, Treasury Department, Washington, D. C., will receive proposals until September 29 for all the labor and material required for the approaches to the United States custom-house and postoffice building at Chattanooga.

Chattanooga, Tenn.—Theatre.—It is stated that Frank P. Marquet has awarded contract for the erection of a theatre building.

Chattanooga, Tenn.—The plans of R. E. Smith have been adopted for the erection of a building for the Woman's Christian Temperance Union.

Clifton Forge, Va.—A branch of the United Banking & Building Co. of Richmond, has been organized with C. T. Lewis, president; J. L. Duncan, secretary, and H. T. Nelson, treasurer.

Conyersville, Tenn.—Church.—The members of the Methodist Episcopal Church intend building an edifice.

Corpus Christi, Texas.—Opera Pavilion.—Earle H. Silver will furnish plans for the Stutts opera pavilion lately referred to. It is to be a frame structure 80x140 feet, with seating capacity of 2,000 people and cost \$10,000.

Corpus Christi, Texas.—Hotel.—Plans have been prepared by Earle H. Silver for a \$7,500 hotel at Ingleside for E. D. Allen.

Covington, Va.—A branch of the Eastern Building & Loan Association of Syracuse, N. Y., is being organized in Covington with J. E. Rollins, president, and G. D. Kline, secretary.

Cusseta, Ga.—Hotel.—R. H. Reynolds, of Richmond, is reported as having secured contract for the erection of a hotel in Cusseta.

Durham, N. C.—Church, etc.—Lutz & Michie, architects, write that they did not prepare plans for the edifice to be built for St. Joseph's African Methodist Episcopal Church reported in last

issue. This firm has plans in preparation for the erection of a number of buildings in Durham.

Ennis, Texas.—School Building.—G. C. McArthur has contract for erecting the school building mentioned in last issue.

Eutaw, Ala.—Opera house.—An opera-house is reported as to be built.

Floydada, Texas.—Courthouse.—Floyd county will probably build an \$8,000 courthouse in Floydada. The county clerk can give particulars.

Fort White, Fla.—Hotel.—The 25-room hotel lately referred to will be built. D. E. Whetstone can give particulars.

Fort Worth, Texas.—School Building.—The erection of a school building at Brookly Heights is contemplated.

Fort Worth, Texas.—Depot.—The Fort Worth & Rio Grande Railway Co. and the St. Louis & Southwestern Railroad Co. (office, St. Louis, Mo.) are reported as to jointly build a depot in Fort Worth.

Gaffney City, S. C.—Church.—The Baptists contemplate building a \$6,000 edifice.

Goldboro, N. C.—Market-house, etc.—The erection of a market-house and city hall is contemplated. The mayor can give information.

Greensboro, N. C.—School Building.—The plans for the State Normal & Industrial School for Girls, mentioned in last issue, have been prepared by Epps & Hackitt and provide for two buildings, school and dormitory. They are to be of brick stone-trimmed, and the estimated cost of both is from \$28,000 to \$30,000.

Griffin, Ga.—Warehouse.—D. W. Patterson, mentioned in last issue, is building a warehouse 100x66 feet.

Haskell, Texas.—Hotel.—It is reported that Dr. Simmons has awarded contract for the erection of a two-story hotel, 32x72 feet.

Henderson, Ky.—Church.—The edifice for the Baptists mentioned in last issue is to be 90x70 feet and cost about \$15,000. Rev. J. M. Sallee can give particulars.

Hillsboro, N. C.—Lutz & Michie, of Durham, report that they are building a \$10,000 barn at Hillsboro.

Hopkinsville, Ky.—Depot.—The Ohio Valley Railroad Co. (office, Evansville, Ind.) contemplates the erection of a depot in Hopkinsville.

Huntington, W. Va.—P. Legg & Co., of Dallas, Texas, have furnished plans for the erection of a \$25,000 residence in Huntington for G. A. Floding.

Iron Gate, Va.—A branch of the United Banking & Building Co. of Richmond, has been organized with E. S. Pendleton, president; O. Hillman, secretary, and T. C. Jones, treasurer.

Ivanhoe, Va.—School Building.—Peirce Brothers have, it is reported, secured contract for the erection of a school building.

Jackson, Miss.—College.—Bids will be received until September 15 for erecting the three-story brick building, 80x105 feet, for Millsaps College, lately mentioned. Hunt & Lamm, of Chattanooga, Tenn., are the architects. H. H. Hims can be addressed.

Key West, Fla.—Jail.—Contract for building the \$15,000 jail for Monroe county, mentioned in last issue, will be awarded on September 7. The plans have been furnished by the Pauly Jail Co. Peter T. Knight, county clerk, can be addressed.

Knoxville, Tenn.—Hotel.—The building of a hotel on House mountain is said to be contemplated.

Leicester, N. C.—School Building.—The erection of a school building is contemplated. J. F. Wells can give information.

Lewisburg, W. Va.—Academy.—It is stated that Law & Handy have secured contract for the erection of a four-story academy building, 40x100 feet.

Little Rock, Ark.—Hotel.—John Lemmer contemplates the erection of a two-story brick hotel building.

Louisville, Ky.—Hospital.—The erection of a city hospital building is contemplated. Mayor Tyler can give particulars.

Macon, Ga.—School Building.—Bids are invited for the erection of a four-room school building for colored pupils at Pleasant Hill, a suburb of Macon. B. M. Zettler can give particulars.

Madisonville, Ky.—Courthouse.—Hopkins county will, as stated in last issue, build a \$30,000 courthouse. J. T. Adams, S. D. Heckersmith and J. W. Simons have the matter in charge.

Morgantown, W. Va.—The residence for J. C. White, mentioned in last issue, will be built at a cost of \$10,000. J. C. Fulton, of Uniontown, Pa., prepared the plans.

Morgantown, W. Va.—University.—Bids will, it is stated, shortly be invited for the erection of a building for the mechanical arts at the University of West Virginia, and Charles Carson, of Baltimore, will prepare plans for the erection of a scientific building to cost \$40,000.

New Birmingham, Texas.—The New Birmingham Building Co. will, it is stated, build 15 houses.

New Orleans, La.—Depot.—Contract will probably soon be awarded for the erection of the depot recently reported as to be built at a cost of from \$300,000 to \$400,000 by the Illinois Central Railroad Co. (office, Chicago, Ill.) It is to be a two-story brick structure, 175x30 feet.

Newport News, Va.—M. A. Eastman & Son have contract for erecting the 3 two-story brick buildings for A. A. Moss, Barclay & Williams, and Mrs. Lucy Moss, lately mentioned.

Nocona, Texas.—Bank Building.—E. Fleetford, of Gainesville, has contract for erecting the building for the First National Bank, lately mentioned.

North Wilkesboro (P. O. Wilkesboro), N. C.—James Dimmet will erect an iron front three-story brick building; L. A. Jarvis, of Taylorsville, N. C., a similar structure; Absher & Church, several residences, and C. A. Siuk, of Yadkin county, a residence; Calvin Hays is building 1, and the Wilkesboro Manufacturing Co. 3 residences.

Norfolk, Va.—Hotel.—It is stated that work on the hotel on Willoughby Spit, lately referred to, will be soon commenced.

Norfolk, Va.—W. S. Copeland and others, of Danville, contemplate erecting cottages on Willoughby Spit.

Ocala, Fla.—J. F. Dunn is reported as to build a number of houses.

Oxford, N. C.—Courthouse.—B. F. Hester will receive proposals until September 15 for remodeling and enlarging the courthouse for Granville county previously reported.

Paducah, Ky.—Hotel, etc.—Robertson & Shinnick, of St. Louis, Mo., have contract for building the hotel mentioned in last issue. F. W. Katterjohn & S. ns have a sub-contract for brick work. The latter also have contract for a three-story business block.

Pecos City, Texas.—School Building.—A school building will probably be erected. The mayor can give particulars.

Pine Bluff, Ark.—Jail.—The Champion Iron Co., of Kenton, Ohio, has secured contract at \$21,355 for the erection of the jail building recently reported for Jefferson county.

Pine Bluff, Ark.—School Building.—The erection of a school building is contemplated. The mayor can give information.

Pine Bluff, Ark.—Hotel.—The erection of a four-story hotel is proposed.

Plymouth, N. C.—Town Hall.—The erection of a town hall is contemplated. The mayor can give information.

Prescott, Ark.—Warehouse.—The Farmers' Alliance will probably build a warehouse.

Pulaski City, Va.—A branch of the People's Building, Loan & Savings Association of Geneva, N. Y., has been organized in Pulaski City with H. C. Summers, president, and B. F. Baldwin, treasurer.

Richmond, Ky.—Hotel.—Contract will probably soon be awarded for the erection of the Hotel Glyndon, lately mentioned. A. R. Eurnam can give information.

Richmond, Va.—P. H. Mayo contemplates erecting a brick store building.

Richmond, Va.—F. Sitterding has been awarded contract for building eight houses for C. M. Bolton, of Washington, D. C.

Roanoke, Va.—Church.—The new edifice for Grace Methodist Episcopal Church, lately mentioned, is to be a pressed brick veneered structure 45x60 feet, gray sandstone trimmings, slate or tin roof, Gothic stained glass windows, etc. Shockey & Gladden are the contractors, and Gustaf Bot-tiger is the architect. The cost is about \$6,000.

Roanoke, Va.—P. W. Pope, referred to in last issue, will build a \$6,000 residence on the Roanoke Gas & Water Co.'s addition.

Roanoke, Va.—Orphanage.—The Catholics will, it is stated, build an orphanage.

Roanoke, Va.—Church.—W. H. Grove has been awarded contract for the erection of the edifice previously reported as to be built at East Roanoke for the Presbyterians.

Rocky Mount, Va.—Jail.—Franklin county will build the jail lately mentioned at a cost of \$8,000. J. J. Carper can give particulars.

Rome, Ga.—Hall.—It is stated that G. E. Murphy has secured contract for the erection of a three-story building for the masons.

San Marcos, Texas.—Hall and Hotel.—Contractor Wilson has secured contract for the erection of the hall of philosophy, 40x60 feet, reported in last issue as to be built on Chautauqua Hill. The work on the 60-room hotel referred to last week will commence October 1, and a number of new cottages will be built. Sterling Fisher, secretary, San Marcos Chautauqua can give particulars.

Searcy, Ark.—Hotel.—The hotel at Armstrong Springs, lately mentioned, will not be erected this fall, but it is hoped to commence work early in the spring. B. F. Johnson is interested.

Sherman Heights, Tenn.—Church.—The Presbyterians contemplate building a church.

Spring Grove, Va.—School Building.—J. J. Smallwood, lately referred to, is arranging for

the building of a large industrial school at Spring Grove. His address is Box 8, Randolph, Mass.

Statesville, N. C.—Public Building.—W. J. Edbrooke, supervising architect, Treasury Department, Washington, D. C., will receive proposals until September 25 for all the labor and materials required for the approaches to the United States custom-house and postoffice building at Statesville.

Strasburg, Va.—The Strasburg Building Association has, it is stated, contracted for the erection of several tenement houses.

St. Albans, W. Va.—Hall.—Contract will probably soon be awarded for the erection of a three-story hall building 30x70 feet for the Masons. S. C. Blair can give particulars.

Suffolk, Va.—L. M. Tebo, referred to in last issue, is building several houses on lots bought from the East Suffolk Land Co.

Tampa, Fla.—School Building.—The erection of a school building in the first ward is proposed. The mayor can give information.

Tyler, Texas.—P. M. Baker contemplates the erection of a two-story brick store buildings 40x 80 feet.

Union City, Tenn.—Hotel.—R. T. Douglass, of Hickman, Ky., will build the hotel mentioned in last issue in the spring. It is to contain 40 rooms, have elevator, electric bells, heating apparatus, etc., and will cost about \$10,000.

Virginia City, Va.—Hotel.—The building of a hotel at Coeburn is contemplated.

Waco, Texas.—Senator Coke will erect a three-story brick store building.

Waldo, Fla.—D. Hicks will erect a brick block.

Walton, Ky.—Jail.—A jail building will probably be erected.

Washington, D. C.—Carhouse.—S. H. & J. F. Adams, of Baltimore, have secured contract for the erection of a brick and stone carhouse for the Washington & Georgetown Traction Co. It will cost \$50,000.

Washington, D. C.—W. J. Brooks will erect a two-story brick dwelling to cost \$5,000; W. D. McFarland, \$5,000 brick dwelling; Jacob Franz, two-story brick dwelling to cost \$5,000; J. Farnsworth, three-story brick dwelling, 20x36 feet, to cost \$5,500, and E. J. Hannan, two dwellings to cost \$12,000.

Wheeling, W. Va.—A building association is being organized by Thomas O'Brien, William Ellingham, James McAdams and others.

Assessed Valuation of Property in the South in 1860.

CHARLESTON, W. VA., August 31, 1891.
Editor Manufacturers' Record:

In your issue of August 29th, on page 41, you give the assessment of the South. Is there any way you can give the assessed value of the same States, both real and personal, including slaves (which were assessed at about 20 per cent. of valuation), in 1860, commencement of the war?

A SUBSCRIBER.

The census of 1860 reported the total assessed value of real and personal property in the South in 1860 as follows:

Maryland.....	\$267,135,238
District of Columbia.....	41,084,945
Virginia.....	657,021,336
North Carolina.....	292,297,602
South Carolina.....	499,319,128
Georgia.....	618,233,387
Florida.....	68,929,685
Alabama.....	432,156,762
Mississippi.....	599,429,292
Louisiana.....	435,797,265
Texas.....	267,792,335
Arkansas.....	180,211,330
Tennessee.....	382,495,200
Kentucky.....	528,212,693
Total.....	\$5,200,190,818

A COMPANY has been organized at Norfolk city for the purpose of establishing a rolling mill on land east of the iron bridge of the Norfolk & Western Railroad, options having been secured on about forty acres of land for that purpose. One of the tracts secured is owned by the Duponts, powder manufacturers, and their magazine is located on it. The work of building the mill will be done by the Virginia Construction Co., which has been recently chartered. The property has a very deep water front, and the largest ships can, it is said, load at the wharves.

HAVE you real estate notes, municipal or county bonds that you want to convert into cash? If it is a Southern note or bond you can advertise it free, four times, in the **MANUFACTURERS' RECORD**.

DEEP WATER AT SAVANNAH.

Systematic Agitation of this Important Project Inaugurated.

What a \$3,000,000 Appropriation Would Mean for That Port and a Vast Tributary Country—Great Results from the Work Already Done—Some Facts About the River and Harbor and Savannah's Commerce.

[Special Cor. MANUFACTURERS' RECORD.]

SAVANNAH, GA., August 29, 1891.

The signs of the times hereabouts are that the whole United States is soon going to be made very thoroughly acquainted with Savannah's cogent reasons for asking the government to set apart \$3,000,000 for the improvement of this harbor. The great railroad systems interested here, the board of trade and business men, in their corporate as well as individual capacity, have earnestly and unitedly taken hold of the project of securing deep water in Savannah river, and a plan of campaign has been agreed to which will leave the public in possession of the very strongest proofs of the justice of Savannah's request.

There is eloquence even in cold statistical facts, and when Savannah shows, as she can show, that the deepening of Savannah river from 14 feet to 22 feet, which cost the government about \$1,500,000, has increased Savannah's commerce from \$68,000,000 to \$153,000,000 per annum, and yet that the railroads can now haul into Savannah more than the boats can carry out, and that a permanent depth of 26 feet in the harbor would cost only \$3,000,000, and would increase the commerce of the port as much or more than its increase to date, and give advantages, now only possessed in a limited degree by a vast and important area, of a short rail haul and a long water haul, that showing is going to have a tremendous effect in Congress and out of it.

The newspapers are writing deep water, the railroads are talking deep water and the people are demanding deep water. It is the one absorbing topic of the town.

I met Capt. D. G. Purse, president of the board of trade, a leading financier, railroad builder and real estate operator. Said he: "The people are now thoroughly aroused to an appreciation of the situation. We have reached a point in the growth of our commerce when deep water must be had, and the extension of railroads into the interior, the shortening of lines between New York and Tampa, show that the situation must continue to grow more serious. We must have a larger tonnage fleet. We are going to present our claims systematically and with determination. The city and the railroads will undertake to educate the people at large up to the necessities of the situation. Lecturers will be employed to present the matter to the people throughout the country. The legislature of Georgia and all the State officers will be invited to come over and see our harbor and our wharves, and during the sessions of Congress the President and his cabinet, the committee on commerce and the committee on rivers and harbors will be invited down; governors of other States, Congressmen and Senators generally will also be invited, and all will be entertained by the city, and what we have and what we need will be thoroughly exhibited to them."

Capt. O. M. Carter, the engineer in charge of the work of deepening the harbor, is very enthusiastic about the results which would follow extensive operations. Said he: "Since the government began the work of deepening the water here, some 15 years ago, about \$1,500,000 has been spent. The depth of water was then 14 feet, and it is now 22 feet, and a saving has been made to shippers of fully \$1,500,000 a year, through larger vessels coming in, thus reducing the carrying rates

and bringing to Savannah products which were formerly shipped from New Orleans and Galveston, and on which an additional heavy insurance rate had to be paid.

"The consolidation of railroad companies has brought the iron, the meat and the grain products of the South and West nearer to Savannah, and the railroads are ready to give us the benefit of good rates, but dead weight freight cannot be carried to advantage without deep draft vessels. What we want now is an appropriation sufficient to give Savannah river a permanent depth of 26 feet. I have estimated that \$3,000,000, if appropriated at one time, will do this work. My plans have received the indorsement of Congress in the shape of a \$350,000 appropriation made last year, but the work cannot be done for the sum I name unless appropriated at one time. For why? In the first place, it takes very heavy and expensive machinery to do the work thoroughly, economically and extensively. A contractor, who is uncertain whether there will be any appropriation at all next year, cannot afford to bid so low for the work as he could if bidding for the entire job. And then when the work is done in a spasmodic way, because of small sums of money being appropriated, a great deal is lost by the destroying effect of tides and storms. I estimate that I could have done all that has been done here so far for three-fourths of the amount it has cost, if I had had the sum all at one time; because I could have secured lower bids, and would not have been compelled to do so much of the work a second time. With an appropriation of \$3,000,000, I could give a depth of 26 feet inside of three year's time, and it would not require more than \$25,000 a year thereafter to maintain that depth. And there is nothing unusual in our request, for the government has made appropriations sufficient to complete the work contemplated at Galveston, at Baltimore, at Philadelphia and at Salt St. Marie.

"With deep water the commerce of Savannah would increase amazingly. There is no snow to obstruct Southern railroads; our harbor is open all the year. It is a down hill run for the railroads, and we would get freight from even as far Northwest as Oregon. The trade is now largely local, and mostly originates with the Georgia Central; then it would be extensive and world-wide; a European trade, such as we have never had before, would spring up, and a line of European steamers would soon become a necessity. The boats are taking advantage of every additional inch of water in their loading to-day. Why, put the river back to its 14-foot depth and not one of the magnificent New York steamers could regularly run into Savannah.

"A great point in favor of Savannah harbor is that it is fresh water. Here we are, 20 miles from the sea, land locked and with fresh water. As everybody knows, fresh water is most highly prized by seamen, as running into a fresh-water harbor saves the expense and time of two dockings a year. The teredo or ship worm is particularly destructive in Southern waters, and the advantage of having a fresh-water harbor to lie in is one which cannot be too highly estimated, for in fresh water the ships scour themselves of barnacles and other pestiferous excrescences which attach themselves to the hulls of ships in salt water.

"Savannah should become an important ship-building point after awhile, for all things that cost most in ship-building can be procured here cheaper than elsewhere on the Atlantic coast.

"There are scores of reasons why Savannah should be made a deep-water harbor, and I sincerely trust the government may see the importance of comprehensive operations here."

Col. J. W. Estill, the well-known editor

and owner of the Morning News, sees the greatest urgency for the deepening of the harbor. The shortening up of North and South of railroad lines, the opening of new Southern and Western territory, the Southern immigration and development, all demand better transportation facilities by water. The Savannah newspapers are energetically seconding the efforts being made to secure the desired appropriation, the Evening Times having been especially conspicuous in the movement, which resulted in a mass meeting July 21, when, after speeches by Col. Calhoun and many others, an "agitation committee" of 14 railroad men, editors, business and professional men and officials was appointed with general powers to act.

That the railroads, and especially the Georgia Central, are enthusiastically indorsing the movement, is apparent on every hand. I visited Capt. E. V. McBee, the Central's new superintendent, and he regards deep water as an immediate and absolute necessity. He also regards Savannah as inevitably the coming great Southern seaport. The Georgia Central already owns terminals at Savannah, which Gould himself declared to be worth all the capital stock of the Central Road—\$7,500,000—and it was at Capt. McBee's suggestion the Central bought the Tybee Island Railroad. This road was built by Capt. Purse to give transportation to and from Savannah's favorite sea coast resort. Capt. McBee saw it would give 18 miles additional wharfage when the present terminals became inadequate, and so the Central company took in the road and all its franchises and water fronts.

Incidentally, Capt. McBee has an interesting theory about Savannah connection with a possible solution of the negro problem. The restless American citizen, he says, always ransacking the globe in an effort to find something, instead of settling down to slow accumulations, will turn his attention to the opportunities for big enterprises in portions of Africa. Two million negroes can be spared from the "black belt" of the South. The negro would naturally be the man the American would take with him for a laborer and helper in Africa. A big outfitting trade would be built up at Savannah, and with the development of an American interest in Africa, a line of boats would run between Savannah and that portion of Africa, and would ultimately build up an important export and import trade at Savannah.

Facts and Figures About Savannah's Commerce.

But the things in sight are sufficient to prove Savannah's immense commercial importance. Savannah is the first naval stores port in the world, and the second cotton port of America. The cotton receipts for 1890 and 1891—season to season—will exceed 1,150,000 bales. In 1872 they were less than 500,000 bales. The exports of naval stores were valued at less than \$50,000 in 1873. The yearly exports now amount to about \$5,000,000! The total commerce of the city was \$68,000,000 in 1877; it was \$153,000,000 in 1890,—nearly as great as that of all other South Atlantic ports combined. The value of the annual exports of timber and lumber has risen from less than \$500,000 in 1877 to more than \$1,400,000 now; fruits and vegetables from \$500,000 to \$2,500,000; pig iron from \$25,000 to about \$1,500,000; cottonseed oil, a new industry, has already reached nearly \$1,000,000.

The Ocean steamship company has lines to New York, Boston and Philadelphia. Between Savannah and New York there are five magnificent steamships a week; Boston and Philadelphia one each. The Merchants' & Miners' Transportation Co. runs two ships a week between Savannah and Baltimore, and there is a coasting line to Brunswick and Fernandina. There are 8 railroads, representing a total mileage of

4,073 miles—the Georgia Central, 2,600; the Savannah, Florida & Western, 700; Middle Georgia and Atlantic, 240; Macon & Atlantic, 160; South Bound, 140; Charleston & Savannah, 115; Savannah, Americus & Montgomery, 100; Savannah & Atlantic, 18. It is instanced that Gould can now load a ship at China and bring its cargo into Savannah without passing over any but his own lines.

The banking capital of Savannah is about \$2,000,000, and there are besides four savings banks and loan and building companies in abundance.

There are wood and iron industries of various descriptions; a cotton mill is in successful operation and two others are about to be started, and the annual product of the various industries foots up about \$6,000,000. There are street car lines, electric, steam and horse, covering the entire city. The census gave a population of 45,000 in 1890; in 1880 it was 28,000. There are believed to be nearly 60,000 people in this city and suburbs to-day, and 100,000 are expected to be living in the city before the beginning of 1900.

The city limits contain six square miles, and in it there are thirteen miles of paved streets, Belgian block, asphalt, cobble, and recently a shell road which Alderman R. F. Harman, the energetic chairman of the public improvements committee, designed and is having put down to the entire satisfaction of himself and all who travel over it.

There are eight miles of wharfage now occupied and 25 miles of railroad switches, house, tracks and road in the corporation limits. There are 16½ miles of sewers in the city.

Since a system of water works on the artesian well plan was established there has been a marked decrease in mortality, the death rate now being about 11.63 per 1,000 per annum among the white population. The quarantine station is pronounced the best between New York and New Orleans, and this fact, together with the perfected water and sewer systems, have removed all fears of a recurrence of anything like epidemics of fevers or any other warm weather diseases.

Real Estate Development.

With the material development of Savannah there occur, of course, opportunities in real estate investment of a very profitable character. Though no company has yet undertaken the development of real estate properties on a comprehensive scale, there have been numerous ventures made by individuals, and with very gratifying success. For instance, Col. Estill bought a tract of ground seven years ago for \$5,000. He sold a part for \$21,000, another part for \$29,000 and has a tenth of the property left. Lots sold a few years ago for \$500 and \$1,000 can't be bought now for \$1,000 to \$5,000. The people of Savannah are making investments in every good offering—certainly a conclusive proof of their own faith in the situation.

An instructive instance of the advance in real estate values is furnished in the case of a homeopathic physician who came here four years ago with practically nothing, and who has been making money on real estate by such an allopatic plan that he is regarded as worth \$40,000 now.

Capt. Purse bought five years ago 2,500 acres adjoining the terminals of the Plant system, and having a frontage of two miles on the main channel. If the owners had them to day they wouldn't sell for five times the price they then received.

Mr. S. Krauskoff, one of Savannah's leading merchants, bought a lot for \$3,000 nine years ago. The adjoining lot to-day can't be bought for \$13,000. A syndicate in which he is interested bought a tract 18 months ago, for which they paid \$35,000. They wouldn't take less than \$70,000 to-day. Chas. Seiler bought 30 acres for

\$8,000 several years ago. He has transformed the place into a beautiful park, one of the best of the kind in the country, and \$100,000 wouldn't buy the place.

These instances are sufficient to show that there is a very marked and steady advancement in Savannah real estate values. Values of city property have increased from 50 to 100 per cent., and in suburban properties the increase has made many men rich, and the chances are excellent for a duplication at the hands of present holders. Savannah people believe in Savannah real estate, for they know what their beautiful and important city is, and what it is going to be.

And it certainly does impress even the most casual observer. There is nothing cheap or mean or shoddy in the spirit of the place. It is palpably a high-toned community. Here is a hotel, the De Sota, which would add lustre to even New York's fame; the Telfair academy is a true art school, and the historical library is a credit to the State. There are surprises and delights in parks and squares and monuments, and there are great public buildings in imposing array; there are societies and institutions as old as the republic, and there are local traditions and the spirit of memories leading back through every important political, military and even spiritual experience of the nation to the days of Gov. Oglethorpe, John and Charles Wesley and Geo. Whitefield. Savannah has entertained many of the most distinguished men of the past century and a-half, and has given enthusiastic welcome to numerous presidents, from Washington to Cleveland.

With a permanency and a proud record to build on, with every advantage in the way of rail and water transportation, with the whole region tributary to her on an era of remarkable material development, who can wonder because Savannah men have the broadest faith in the possibilities of their city, or that the merchants and commercial representatives of the city are striving with their utmost might to secure whatever is adjudged to be of tremendous advantage and permanent benefit in any material way?

ALBERT PHENIX.

Rutherfordton's Development.

[Special Cor. MANUFACTURERS' RECORD.]
SAVANNAH, August 29, 1891.

I met here recently Mr. D. N. Hitchcock, the energetic president of the Rutherfordton (N. C.) Land & Industrial Co. I had seen his page advertisement in the Evening Times, and on making inquiry found that even in these dull times Mr. Hitchcock and his friends here had sold in Savannah fully \$15,000 worth of the land company stock, and for cash, too—no instalment plan about it. I found Mr. Hitchcock's company officed in the most prominent part of the city, and handsomely furnished. I asked about the success of his enterprise, and he called attention to some very pertinent facts concerning the building of towns. "No city can grow beyond the resources of the surrounding country," said he. "When the tributary country is fully developed you have a 'finished city,' don't you. Now at Rutherfordton we are surrounded by a large country in which the development is very small. There are thousands of acres of timber land, practically untouched. There are mining properties, iron, gold, etc., which are hardly more than prospected. There are water powers absolutely unused, and it is for these reasons that Rutherfordton has an industrial future. Leaving out the matter of climate and scenery, which of course we never do for these are among our most conspicuously strong points, there is enough in our timber supply alone to induce a large immigration and industrial development. The

fruit industry is going to be an important one here, too. We are getting in a canning factory, and also locating many other industries on our property. We have a neat, new hotel on our lands; are raising means for other improvements, and expect to see a considerable development as soon as the money situation improves.

"The road from Rutherfordton to Asheville, 41 miles distant, will undoubtedly be built, though whether it will be steam or electric is not yet determined. I believe the Three Cs Road will get in shape before long, and be extended through to the coal fields about Minneapolis, Va. Then we will be elected as a manufacturing town sure. We are making progress right now, and with better times will most certainly see a period of pronounced activity and development."

A. P.

Shipping Southern Iron West and North.

Last week the MANUFACTURERS' RECORD published an enquiry from Cleveland, Ohio, as to how far North and West Southern rolling mills shipped their product. In reply to this, Mr. Thos. Ward, the general manager of the Birmingham Rolling Mill Co., of Birmingham, Ala., writes us as follows:

We sell our product from the Atlantic to the Pacific coast, and as far Northwest as St. Paul and Minneapolis. Some of the leading jobbers in St. Louis and Chicago prefer our iron to any that is made; in fact, we have a reputation for making a decidedly superior quality of merchant bar and plate.

THE Leader, of Southport, N. C., in an editorial on the growth of Winston-Salem, says:

Another element which is noticeable, and which contributes largely to Winston-Salem's success, is the liberal and judicious use of that commodity which makes every great city—"printer's ink." The citizens of the city seem to have always recognized the importance of this article, and their judgment in its abundant use has not been misplaced.

First Coke Iron Made in the South.

Mr. J. T. Harris, of Birmingham, in an interview in the Chattanooga News, claims that the first coke iron ever made in the South was made in Chattanooga, and not at Rockwood, Tenn., as generally reported. The furnace was, Mr. Harris says, owned by Henderson & Gleason, of New York, and the iron was first made in 1859. After the iron was made it was, says Mr. Harris, shipped to London and made into merchantable iron there. The old rolling mill was moved to Knoxville, and the furnace that we made the iron with was removed to Shelby, Ala., during the war, where it was used to make iron, out of which the plate for the Confederate war ships was made. I burned the coke on the ground at the mines at "Pulltight," 12 miles west of Chattanooga, near Etna. The mines have not been worked since the war.

THE September issue of the Decorator and Furnisher contains the prize design for a Louis XV. boudoir, the designer being Mr. G. Capaldo, of New York city. This design, together with a full-page design of a drawing room in the Sheraton style, will be greatly appreciated by decorators and furniture men throughout the country. There are also decorative charts for the furnishing of a country cottage and for the decoration and furnishing of a parlor and bed-chamber, with ample instructions as to the materials and color employed.

MACHINERY WANTED.

If you desire to purchase machinery of any kind consult our advertising columns, and if you cannot find just what you wish, send us particulars as to the kind of machinery needed. We will make your wants known free of cost, and in this way secure the attention of machinery manufacturers throughout the country. You will thus get all information desired as to prices, etc.

Automatic Sprinklers.—The Cornelius Cotton Mill, Davidson College, N. C., wants its mill fitted out with about 200 automatic sprinklers that will be accepted by the Mutual Insurance Co.

Baling Press.—The Jacksonville Palmetto Manufacturing Co., Jacksonville, Fla., wants a baling press.

Barrel Factory.—C. R. Bricken, Luverne, Ala., wants a full outfit of machinery to make lime barrels. He has a 30 horse-power boiler and engine.

Boiler and Engine.—A company organized at Tarboro, N. C., by E. V. Murphy and others to operate a peanut-cleaning factory, will want a boiler and engine.

Boiler and Engine.—L. G. Young, Union, S. C., will purchase a boiler and engine for a steam laundry.

Boiler and Engine.—The Merchants & Farmers' Peanut Co., Norfolk, Va., will want boiler and engine.

Boiler and Engine.—Captain George Ruhlen, U. S. A., El Paso, Texas, will receive proposals until September 11 for furnishing an upright stationary boiler complete of 10 horse-power capacity, and a steam engine complete of not less than 8 horse-power.

Boiler, Engine and Shafting.—W. B. Henry, North Wilkesboro (P. O. Wilkesboro), N. C., wants prices on a 15 horse-power boiler and engine, also on shafting.

Boilers and Engine.—The S. K. Paige Lumber & Manufacturing Co., Harriman, Tenn., will want boilers and engine, 150 or 200 horse-power.

Brick Mill.—J. W. Brown, Mooresville, N. C., will soon purchase a brick mill.

Bridges and Piling.—Anthony Peters, president Arcadia, Gulf Coast & Lakeland Railroad Co., Lakeland, Fla., desires to correspond with manufacturers of creosote piling and builders of draw-bridges.

Cars.—John A. Reid, Carbon Hill, Ala., wants prices on tram cars.

Coal-crushing, Screening and Washing Machinery.—The Wright & Adams Co., Quincy, Ill., is in the market for coal crushers, revolving screens, washers, etc., for an anthracite coal mine of 400 tons daily output.

Corn Mill.—Henry Bros., Bridgeport, Ala., will purchase a corn mill with capacity for 12 or 15 bushels per hour.

Cotton Gin.—J. B. Burns, Gordon, La., wants prices on cotton gins.

Cotton Mill.—J. W. Brown, Mooresville, N. C., desires information and prices on machinery for a cotton mill.

Cotton-mill Supplies.—Stough, Cornelius & Co., Davidson College, N. C., will want supplies, such as bobbins, cans, belting, etc.

Distillery.—O. P. Elliott, Dexter, Texas, wants prices on distillery outfit.

Drying and Washing Machinery.—A. H. Agnew, Alexandria, Va., wants drawings and prices on hot air dryer and washer for washing and drying 50 tons Florida phosphates per day.

Elevating Machinery.—A company formed at Tarboro, N. C., by E. V. Murphy and others to operate a peanut cleaning mill, will want elevating machinery.

Elevator.—The Merchants & Farmers' Peanut Co., Norfolk, Va., will want a steam elevator.

Elevator.—F. W. Katterjohn & Sons, Paducah, Ky., want prices on hydraulic elevator.

Elevators.—The Louisburg Building & Improvement Co., Louisburg, N. C., is in the market for elevators.

Engine.—Frank Reynolds, Ayr, N. C., will want a 25 horse-power engine.

Gas Engine.—The A. J. Showalter & Co., Dalton, Ga., may want a gas engine.

Grinding Machinery.—M. E. Pelton, manager of the Tazewell Cement & Lime Co., Christiansburg, Va., can be addressed relative to the purchase of grinding machinery.

Grist Mill.—William Davidson, Milton, Fla., wants one set of rocks for grist mill.

Grist Mill.—J. B. Burns, Gordon, La., wants prices on grist-mill machinery.

Hoisting Plant.—The Chickasaw Coal Co., Chickasaw, Ala., expects to purchase a 50 horse-power hoisting plant soon.

Laundry.—L. G. Young, Union, S. C., is in the market for a full outfit for a steam laundry.

Machine Shop.—W. G. Lunsford, Birmingham, Ala., will want planer, lathes, boring mill, bolt machine, etc., for machine shop.

Milling Machinery.—D. P. Montague, Chattanooga, Tenn., will want milling machinery.

Pump and Wind-mills.—The Hotel Gordon, (G. A. Allison, manager), North Wilkesboro, (P. O. Wilkesboro) N. C., wants prices on force pump and wind mills to lift water 115 feet.

Pump.—The Charlestown Water Co., Charlestown, W. Va., wants a good second-hand steam pump of standard make with capacity for 6,000 gallons per hour.

Pump and Piping.—Sims & Wiley, Wayne C. H., W. Va., want a small force pump and about 3,000 feet of iron piping.

Rails.—John A. Reid, Carbon Hill, Ala., wants prices on T rails.

Rails.—Anthony Peters, president of the Arcadia, Gulf Coast & Lakeland Railroad Co., Arcadia, Fla., desires to correspond with manufacturers of steel rails.

Railway Equipment.—Anthony Peters, president Arcadia, Gulf Coast & Lakeland Railroad Co., Arcadia, Fla., desires to correspond with railway equipment manufacturers.

Roofing.—S. C. Blair, St. Albans, W. Va., wants quotations on iron roofing.

Roofing.—D. Hicks, Waldo, Fla., wants prices on roofing.

Sash and Door Factory.—S. Spengler, Vicksburg, Miss., is in the market for machinery for a sash and door factory.

Sash, Door and Blind Machinery.—J. W. Brown, Mooresville, N. C., will purchase sash, door and blind machinery.

Sawing and Splitting Mill.—F. M. Stansbrough, Barton, Fla., wants a small machine for sawing and splitting fire wood.

Saw Mill.—J. B. Burns, Gordon, La., wants prices on saw-mill machinery.

Screws.—The Louisburg Building & Improvement Co., Louisburg, N. C., wants screws for a tobacco factory.

Shafting and Pulleys.—The Merchants & Farmers' Peanut Co., Norfolk, Va., will want shafting and pulleys.

Shuttle-block Machinery.—W. B. Henry, North Wilkesboro (P. O. Wilkesboro), N. C., wants prices on shuttle-block machinery.

Slate.—C. L. Nussman, Nussman, N. C., wants the address of manufacturers of slate for covering houses.

Stave Machinery.—C. P. Day, 1101-1102 Chamber of Commerce, Chicago, Ill., wants information and prices on a portable machine for cutting oak into tight-barrel staves, with engine, boiler and outfit complete.

Stave Machinery.—C. D. Toler, Lawrenceburg, Tenn., will want stave machinery, including Dum saw buckers.

Steam heating Apparatus.—W. P. Jackson, Salisbury, Md., will require steam heating apparatus for a new residence.

Water Motor.—B. J. Keech, Tarboro, N. C., wants a water motor to run about four sewing machines and other machinery for making bags, with a 40 or 50-foot fall from tank of water works.

Watchman's Time Detector.—Stough, Cornelius & Co., Davidson College, N. C., want a watchman's time detector.

Water Works.—The Baird Water & Power Co., Baird, Texas, will want about one mile of 4-inch wrought-iron mains, about three miles of laterals, 2 and 1-inch connections, and one 500,000 gallon wooden tank.

Woodworking Machinery.—The S. K. Paige Lumber & Manufacturing Co., Harriman, Tenn., will want lathes for turning handles, band saw for logs, and a general line of bench saws and planers, with special box-making machinery.

MESSRS. HUSBAND & BROOKS, of San Francisco, in a letter to the MANUFACTURERS' RECORD, say:

The ship Yorktown, which is now loading at your port, will bring to San Francisco a shipment of 850 tons of Southern coke pig iron and 150 tons of Southern charcoal pig iron. This is our initial purchase of that product from your section, and upon its arrival here we will be able to know what its value is in comparison with the English and Scotch brands now used. Should it meet with favorable results we will have the satisfaction of being the first to open another market for Southern iron, and, furthermore, we will push its sale vigorously.

Southern iron makers will watch the development of this trade with much interest.

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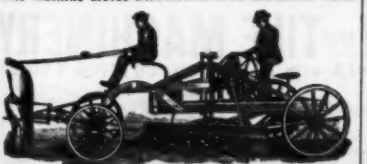
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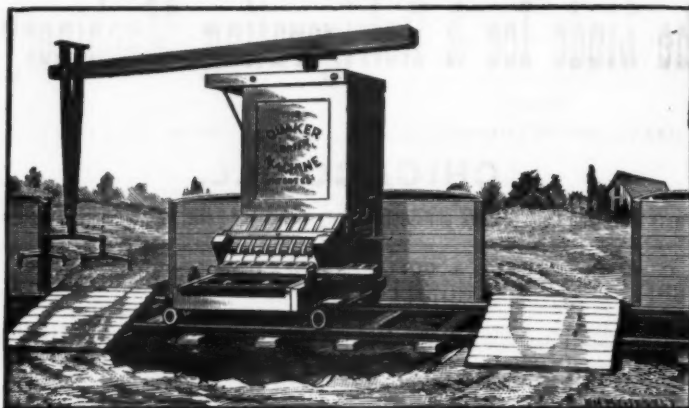
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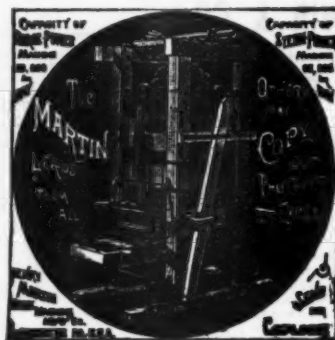
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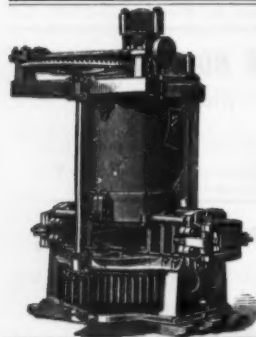
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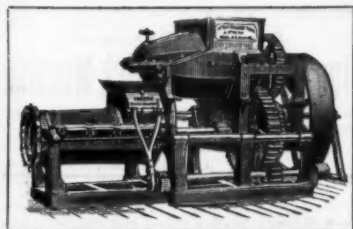
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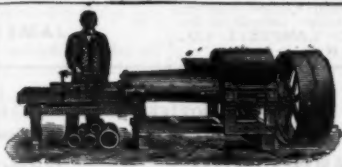
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This mountain lies parallel with the great belt of minerals, which run from Virginia to Georgia, and on it we have a large amount of extra fine MARBLE of all colors.

ROOFING AND PENCIL SLATE in quantities not to be soon exhausted. A large amount of FLAGING SLATE and some fine quarries of Building Rock.

Gold is found in paying quantities in a number of places. At two points there have been mills, and much Gold has been made, also Barytes pure, and with Gold, Silver and Lead.

There is running through this property for more than ten miles a MANGANESE VEIN of great width, analyzing in some places on the top of the ground 47% of metal.

We have two well-located points for Iron and Steel Plants with good ore enough to run them for all time, and in less than one mile from these points are Limestone and Fire-Proof Clay in very large quantities.

We also have three good Gold Mines and other Mineral Lands for sale. Address

REV. P. R. BLAM,

King's Mountain, Cleveland County, N. C.

MACHINERY IN STOCK.

Engine Lathe, 40 in. x 25 ft. Old style. Cheap.
Engine Lathe, 38 in. x 16 ft. New. Heavy pattern.
Engine Lathe, 32 in. x 18 ft. New. Heavy.
Engine Lathe, 30 in. x 12 ft. Fitchburg. New.
Engine Lathe, 28 in. x 12 ft. New. Heavy.
Engine Lathe, 24 in. x 12 ft. Fitchburg. New.
Engine Lathe, 24 in. x 12 ft. Standard. New.
Engine Lathe, 21 in. x 10 ft. Perkins. New.
Engine Lathe, 20 in. x 8 ft. Standard. New.
Engine Lathe, 18 in. x 6 ft. Hendey. New.
Engine Lathe, 18 in. x 6 ft. Star. At Order.
Engine Lathe, 16 in. x 6 ft. Fitchburg. New.
Engine Lathe, 16 in. x 6 ft. Hen'ey. New.
Engine Lathe, 15 in. x 6 ft. Prentice. New.
Engine Lathe, 14 in. x 6 ft. Fitchburg. New.
Engine Lathe, 14 in. x 6 ft. Star. Good Order.
Engine Lathe, 14 in. x 6 ft. Blaisdell. Good Or.
Planer, 72 in. wide, 54 in. high, 25 ft long S. C. and-hand. Good Order. Price Low "Betts".
Planer, 30 in. x 8 and 10 ft. Powell. New.
Planer, 24 in. x 5 ft. Walters. Second-hand. Good Order. Cheap.

Planer, 24 in. x 6 ft. Powell. Modern. At Order.
Drills, Garvin 3 spindle, Gang. Good Order.
Drills, Pratt & Whitney, 20 in. swing. Good Or.
Drills, Prentice, 20 - 21 - 25 - 28 and 32 in. swing. Complete.

Drills, Radial. New Pattern. 3-ft. arm.
Brown & Sharpe No. 1 Screw Machine, with wire feed complete. Good Order.
Profiling Machine. Two spindles. Good Order.
New Pattern Boring and Turning Mill, 39 in. New Pattern 15 in. Crank Motion Shaper.
New Pattern 24-in. Geared Shaper.
New Pattern Universal and Standard Millers.
Hendey 15 in. Shapers. Good Order.

Send for Complete September List.

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SUCCESSOR TO
E. P. BULLARD'S 68 Cortlandt Street,
N. Y. Mach'y Warehouses, NEW YORK.

FOR SALE.

SECOND-HAND STEAM PLANT,

All in good condition, divided to suit.

One Corliss Engine, 24x48-in., 300 H. P.
One Condensing Corliss Engine, 30x72 in., 600 H. P.
Three Tubular Boilers, 72 in. di-m. x 17 ft. long.
All the above can be seen at Davol Mills, Fall River, Mass. Ready for immediate delivery.

ROBERT WETHERILL & CO.
CHENTER, PA.

FOR SALE.

Cotton Machinery

One hundred and eight 36 inch Cards, with 18-inch doffers, fast combs, self-strippers, well clothed; also 12 Railway Heads with first class eveners; 2 good Doubler Heads, with 54 cards running into each head. The machinery can be seen at the mill in working order.

DAVOL MILL,
FALL RIVER, MASS.

FOR SALE.

A Well-Equipped Saw Mill

Situated in the Cypress Belt or Atchaplalaya District of Louisiana, with 10,000,000 feet standing cypress. Address

KENNEDY & FOOTE,
Centerville, La.

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PROSPECTUS AND PRESS OPINIONS

THE SECRETS OF CANNING,

A PRACTICAL BOOK FOR CANNERS.

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24 in. x 56 in Watts Campbell Corliss Engine, second-hand, in first-class order; immediate delivery. Apply the WATTS CAMPBELL CO., 156 Ogden Street, Newark, N. J.

FOR SALE. RAILS, SPIKES, FASTENINGS, FROGS, SWITCHES AND CROSSINGS, LOCOMOTIVES, DUMMIES, CARS, WHEELS and AXLES.

Complete Outfits for Logging Roads and Street Railways. New and Second-hand.

WILLIAM MINNIGERODE, Dealer in Railway Supplies,
Room 3. JOHNSTONE BUILDING. CINCINNATI, OHIO.

M. P. SATTERTHWAITE,

178 Superior Street, CLEVELAND, O.

MACHINERY.

ALSO GAS ENGINES, 1 to 100 h.p.

EXHAUST FANS, EJECTORS, &c., &c.

Correspondence Solicited. Mention this paper.

QUEEN CITY SUPPLY CO., PUGH, POND & CO. PROPRIETORS.
Nos. 161, 163 & 165 West Pearl Street, Cincinnati, Ohio.

Factory, Machine Shop and Mill Supplies.

Agent for B. F. Sturtevant Co., Blowers and Exhausts; Boston Belting Co., Rubber Goods of all kinds; Fayerweather & Ladewes, Hoyts' Best Leather Belt; Jno. A. Reebings' Sons, Wire Rope; Grant Corundum Wheel Co., Emery Wheels; Magnolia Metal Co., Magnolia Babbitt Metal.

Established 1855.

GEORGE PLACE,

Late the George Place Machinery Co.

Equipment of Railway and Car Works

EQUITABLE BUILDING,

190 Broadway. - NEW YORK

CARLISLE MFG. CO.

Cars, Engines, Frogs

AND SWITCHES,

CARLISLE, PA.

BARCAINS.

Standard Gauge Locomotives, 60,000 pounds weight, Sand Crushers, Rock Crushers, Cornish Rolls, Thirty-six Second-hand Engines in perfect order, Locomotive Boilers, Horizontal Return Tubular Boilers, Upright Boilers practically new. If you need Machinery it will pay to write us.

CHESTER BERTOLETTE & CO.

NORRISTOWN, PA.

STEEL RAILS

And Track Material complete for Logging and Mining Roads and Industrial Enterprises on the

Instalment Plan.

Payment, cash margin 25 per cent., balance monthly for 24, 36 or 60 months. Also

Locomotives and Cars

On same terms. Second-hand Rails purchased.

The STEEL RAIL SUPPLY CO.

HUMPHREYS & SAYCE, Mgrs., 10 Wall St., New York.

We have no Agents.

BOILERS, ENGINES,

LIGHT LOCOMOTIVES,

RAILS and EQUIPMENT,

Cotton Gins, Saw Mills,

Wood - Working Machinery,

and Heavy Hardware.

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Corner Market and Cowart Streets,
CHATTANOOGA, TENN.

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One Henry Martin Brick Machine

In fair condition, capacity thirty thousand daily. For particulars address

"BRICK MACHINE,"

Care Manufacturers' Record.

FOR SALE.

1 6-Roll Single Surface Planer and Matcher.. \$75
1 4-Roll Single Surface Planer and Matcher.. 200
1 Pay Power Mortiser, with Boring attachm't 135
1 Lane & Bodley Railway Cut-off Saw, large 70
1 Pay & Co. No. 8 14-inch 6-Roll Fast Feed
Flooring Machines, each..... 500
1 Rogers 2 Spindle Shaper Wood Tap..... 65
1 Scroll Saw..... 50
1 4-inch Centrifugal Pump..... 60
1 No. 6 Sturtevant Blower, with counter..... 85
1 Colburn 2 Spindle Blend Boring Machine.. 35
1 24-inch Double Surfer, with counter..... 350

JAMES JENKS,

199 Jefferson Avenue, DETROIT, MICH.

TRADE NOTES.

THE suit over the Ball engine has been decided in favor of the Ball & Wood Co., of New York, by the United States Circuit Court.

THE Corliss Steam Engine Co., of Providence, R. I., is sending out a handsome framed albertype picture of the latest improved "Corliss engine," single cylinder type. It is worthy of a conspicuous place in any office.

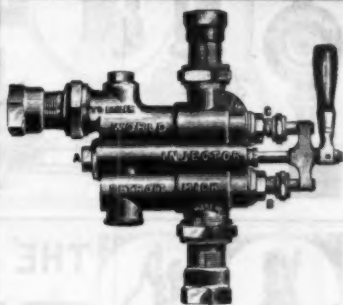
THE Pine Fiber Co., of Crofts, Atkin county, S. C., have recently rebuilt their works, putting in two fiber dryers instead of one, as formerly. These dryers contain apron conveyors, built by the Link-Belt Engineering Co., of Philadelphia. One of these dryers will contain five of these special conveyors, each 30 feet long, the other seven.

THE United States Machine Co., of Williamsport, Pa., report that they have been crowded with orders for some time past and running a full force full time. They attribute this to the superior line of machinery they build. A number of their gang rip saws are being used through North Carolina and in other parts of the South where they give the best of satisfaction.

THE oil-cloth works of Blabon & Co., of Nicetown, Philadelphia, have recently been equipped with a system of linseed elevators and conveyors by their neighbors, the Link Belt Engineering Co. A short conveyor will take the linseed from under the cars to an elevator, which will carry it to a height of 53 feet 6 inches and discharge it either into an iron storage bin or into a distributing conveyor. This latter conveyor is 80 feet long, and delivers the material on to the third floor, from whence it may be run off into a conveyor on the first floor, to be re-elevated for distribution.

S. MORGAN SMITH, manufacturer of the Success water wheel, mill gearing, and all kinds of mill furnishings, at York, Pa., reports the following recent sales: One 30-inch Success water wheel to Turner Bros., Vance, N. C.; one 18-inch wheel to Flippen & Reeves, Atlas, Va.; one 27-inch wheel to A. J. Settemeyer, Nicholsonville, N. C.; one 42-inch wheel to Rio Milling Co., Charlottesville, Va.; one 36-inch wheel to Harvey Terry, Elizabeth City, N. C.; one 10-inch wheel to Geo. W. Webb, Francisco, Va.; one 24-inch wheel to J. K. Moyer, Center Mills, Pa.; two 13-inch wheels to J. H. Hauser, Yadkinville, N. C.

JAMES D. CARDELL & CO., Pipe Bending Works, of Philadelphia, Pa., have published a catalogue which is a very complete illustration of pipe-bending, and conveys a perfect description of the production of their pipe-bending works. Space is only given to the most popular shapes now used in the various lines of business to which they are devoted, as the shapes are continually changing as new uses are developed. The manufacturing facilities of this firm are of the most approved character, and are constantly being enlarged and improved. By their special process of welding pipe for making coils, the weld is not perceptible, either inside or outside of the pipe, except to an expert, there being a perfect amalgamation of the iron at the weld, without leaving, as is usually the case, a ring or ragged projection on the inner side of the pipe, neither is the inside diameter of the pipe contracted by the operation of welding. In their method of making coils the bends are not flattened, but preserve the full contour of the pipe, and the iron forming the outer circumference of the bend is not drawn and weakened in making the bend, but the iron at the inner circumference is evenly upset, making the pipe at that point somewhat



WHOLESALE AGENTS:
RUMSEY & SIKEMEIER, St. Louis, Mo.
THE AHRENS & OTT MFG. CO., Louisville, Ky.
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THE BEST INJECTORS IN USE.

Adapted for All Conditions. High or Low Steam. Long Lift or Short. Water Works Pressure or Tanks. It Always Works.

It is the EASIEST TO HANDLE, being

OPERATED ENTIRELY BY A SINGLE LEVER.

Each Injector is carefully tested before leaving the factory and is

GUARANTEED RELIABLE

AMERICAN INJECTOR CO., Manufacturers,

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THORNBURGH & GLESSNER,

OFFICE AND SALESROOM: 110-112 S. JEFFERSON STREET, CHICAGO, ILL.



MILL & ELEVATOR

Supplies and Equipment.

ELEVATORS, FLOUR AND CORN MILLS, COTTON SEED MILLS. Etc., Fully Furnished and Equipped Throughout.



PHOSPHATES, COAL and MINERAL SPECIALTIES.

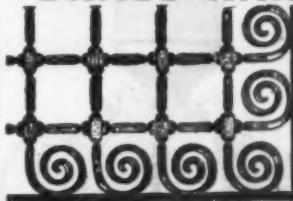


thicker. This catalogue will be of especial benefit to that class of customers who are constantly sending manufacturers letters and drawings asking for something unusual in pipe-bending, many of them showing a want of knowledge of the work and requesting unusual dimensions that could hardly be attained in bending pipe. A view of the shape of coil is at once the manufacturer's best indication of the bending limit. Some shapes are more readily made than others; again the length of pipe to be used in coil is sometimes of importance, but in the greater part of their operations manufacturers are handling up to 1,000 feet length in one entire piece, and are fitted to make still longer lengths. Patrons will be greatly aided by this pamphlet in their efforts to clearly present their wants when ordering, and this well-known firm is ready to assist them in properly proportioning their specialties. Thirty illustrations in this book show spiral coils, taper, helix or conical coils, reducing coils, nested coils in several sizes, zigzag, oval, flat tank, soap-boiling, blast furnace, bosh, stone and ice-making refrigerating coils, attemperators for breweries, wrought-iron bends and return bends, receivers, manifold ammonia valves and flanges, and ammonia return bends. The catalogue will be sent upon application to James D. Cardell & Co. Pipe Bending Works, Rising Sun & Pennsylvania Railroad, Philadelphia, Pa.

COTTON machinery, used but in good working order, consisting of 36-inch cards with 18-inch doffers, fast combs, self stripers, well clothed; 12 railway heads with first-class eveners, 2 doubler heads with 54 cards running into each head, for sale by Davol Mills, Fall River, Mass. See advertisement page 50.

THE CANTON STEAM PUMP CO.
CANTON, O.
MANUFACTURERS OF
THE MILLER DUPLEX PUMPING MACHINERY.
NEW DESIGNS AND IMPROVEMENTS.
FOR BOILER FEEDING AND GENERAL PURPOSES.
WRITE FOR CATALOGUE AND DISCOUNTS.

BRASS RAILINGS AND GRILLS.



Brass Wickets, Bank Work, Elevator Enclosures, Wire Railings and Partitions, Iron Doors and Shutters.

WIRE AND IRON WORK OF ALL DESCRIPTIONS.

J. E. BOLLES & CO., Detroit, Mich.

State your wants and send for catalogue. Mention MANUFACTURERS' RECORD.

COMPLETE STEAM PLANTS

2 to 1000 Horse-Power.

Vertical, Horizontal, High-Speed Automatic, Corliss, Compound and Compound Condensing Engines, Pumps, Etc. Boilers, Every Description. Saw Mills, Grinding Machinery, Chain Belting.

ROCK DRILLS.

ICE-MAKING MACHINERY.

100 POUNDS TO 100 TONS.

IRON AND BRASS CASTINGS, REPAIRS.

SIMPKIN & HILLYER,

1105 MAIN STREET, RICHMOND, VA.

OVER 50 ENGINES IN STOCK.

Write for Catalogue.

A SPECIALTY OF SMALL ISOLATED ELECTRIC-LIGHT PLANTS.

If you want the BEST, MOST EFFICIENT and DURABLE

CENTRIFUGAL PUMP



IN THE MARKET, REMEMBER THAT THE Original Baldwinville Centrifugal Pumps ARE MANUFACTURED ONLY BY BOGGS & CLARKE, - SYRACUSE N. Y. Write for Catalogue and Prices.



Maslin's Patent Steam Pump.

Cheapest and Best Automatic Steam Vacuum Pump. Handles SLICKY and GRITTY LIQUIDS without Oil or Care. Simplest and most durable Pump made, as partial removal of two bolts makes every valve readily accessible. Pumping Plants for Contractors: Irrigation, Water Works, Railroads, Mining and General Hydraulic Purposes. Send for Circulars.

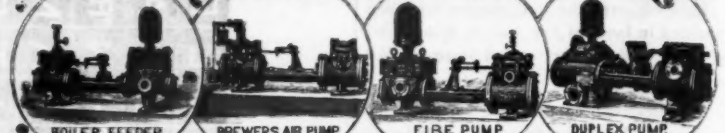
JOHN MASLIN & SON, Sole Mfrs. 165-167 1st St. Jersey City, N. J.

COMPLETE STEAM PUMP
10 SIZES FROM \$7 TO \$75
FOR WATER SUPPLY TANKS, FIRE PUMPS, ETC.
WRITE FOR PRICES AND DESCRIPTIVE CIRCULARS
VAN DUZEN & TIFT
SOLE MAKERS
CINCINNATI, O.

CUT THIS OUT - AND SAVE
TEN PER CENT ON YOUR ORDER BEFORE SEPTEMBER 1ST
SEND FOR CIRCULAR TO H.C. STILLWELL, DAYTON O.

ADVERTISERS wishing to reach the manufacturers of all classes, mining companies, steel, iron and hardware dealers of the entire South cannot find a better medium than the MANUFACTURERS' RECORD.

DEAN BROS. STEAM PUMP WORKS



PUMPING MACHINERY FOR ALL PURPOSES. **INDIANAPOLIS, IND.** SEND FOR CATALOGUE AND PRICES.

BLAKESLEE MFG. CO.
DU QUOIN ILL.
SEND FOR CATALOGUE
STEAM PUMPS.
We have just issued a new illustrated catalogue of our Steam & Jet Pumps. A copy will be mailed free on application.

THE DEMING COMPANY,
PUMPS
For Hand and Power.
WELL SUPPLIES AND TOOLS,
SALEM, OHIO.

LAWRENCE MACHINE CO.
MANUFACTURERS OF
Centrifugal Pumps,
STEAM ENGINES,
General Machinery,
PHOS. BRONZE,
And Composition Pumps and Valves for
Pulp and Paper Mills,
LAWRENCE, MASS.
Send for Catalogue A and Disc'ts.

THE LAIDLAW & DUNN CO.
STANDARD DUPLEX PUMP AND BOILER FEEDER. INGS.
STANDARD COMPOUND STEAM PUMP.
STANDARD DUPLEX STEAM PUMP.
HERO BOILER FEEDER.
PUMPS OF EVERY DESCRIPTION. CINCINNATI, O. SEND FOR CIRCULAR.

AUTOMATIC FEED PUMPS and RECEIVERS
For Returning Hot Condensed Water to Boiler.
STEAM PUMPS FOR ALL DUTIES.
The Buffalo Steam Pump Co.
BUFFALO, N. Y.

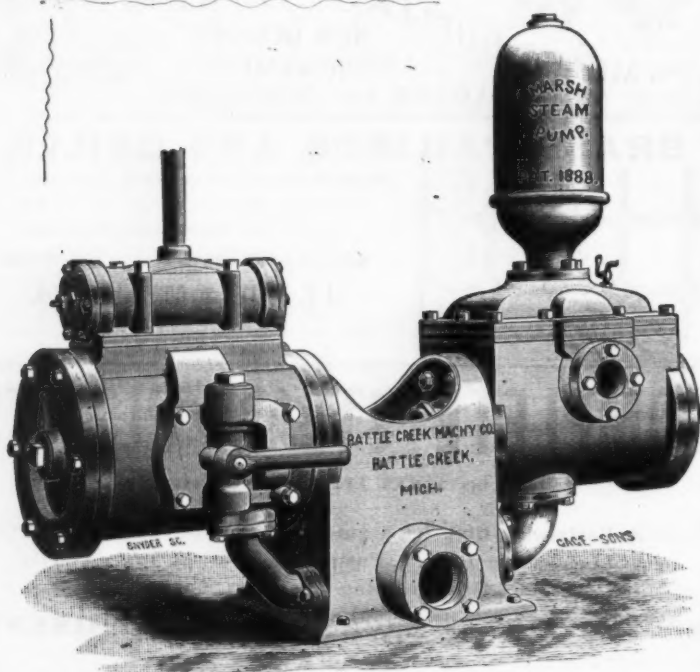
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BARR PUMPING ENGINE CO.
GERMANTOWN JUNCTION, PHILADELPHIA, PENNA.

ALLENTOWN FOUNDRY & MACHINE CO.
ALLENTOWN PA.
IMPROVED EUREKA TURBINE.
HIGH & LOW WHEELS. FOR GREATEST SIMPLICITY, TIGHTNESS OF GATE AND ECONOMY OF WATER. **UNEQUALED**

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OVER 20000 BEST AND CHEAPEST STEAM PUMP KNOWN IN USE
PULSOMETER FOR ALL PURPOSES
STEAM PUMP
PULSOMETER STEAM PUMP CO. SOLE OWNERS-NEW YORK.
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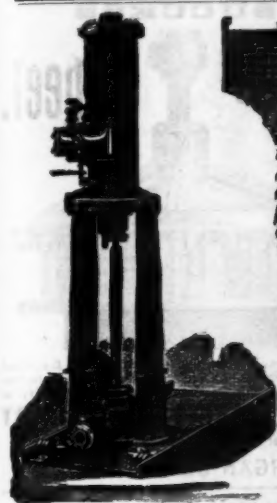
PUMPS
We manufacture direct acting Duplex and Crank and Fly Wheel Steam Pumps for all services. Brass Founders and manufacturers of Brass and Iron Body goods. Straightway valves, etc. Iron Pipe and Fittings and Mill Supplies. Boiler Feed Pumps a specialty. Address
THE JOHN H. MCGOWAN CO.
42, 44, 46 Central Ave., CINCINNATI, O. | Branch House, 1425 E. Main St., RICHMOND, VA.

MARSH STEAM PUMPS



For Feeding Boilers, possessing all the advantages of the injector and the usual type of pump combined. Cannot be excelled by any boiler feeder, as it returns to the boiler all the steam it uses. For circulars and prices address

Valk & Murdoch Iron Works



ARTESIAN WELL PUMP.



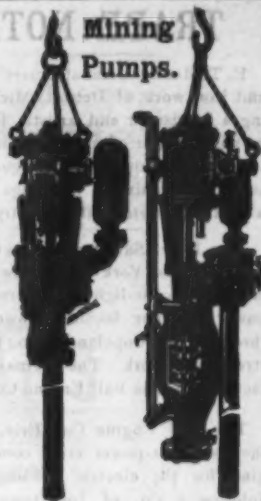
CAMERON STEAM PUMPS.

PUMPS FOR
BOILER-FEEDING,
MINES,
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IRRIGATING,
FIRE PURPOSES,
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And VACUUM



SEND FOR
Illustrated Catalogue A.

SIMPLE,
COMPACT,
DURABLE,
EFFICIENT.
ADAPTED TO
ALL PURPOSES.
NO OUTSIDE
VALVE GEAR.

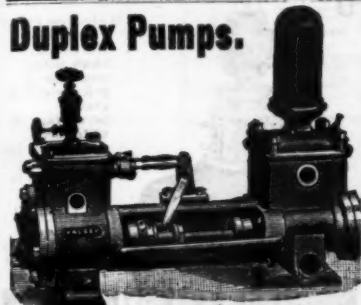


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Pumps.

The A. S. Cameron Steam Pump Works,
PUMPS. Foot of East 23d Street,

NEW YORK. Piston Pattern. Plunger Pattern.

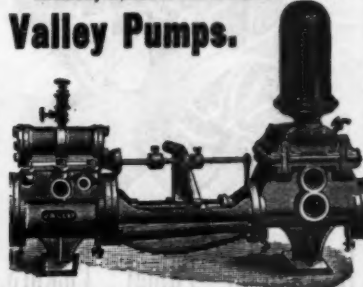
Duplex Pumps.



Valley Pump Co., Easthampton, Mass.

Valley Pumps.

ENGLISH, MORSE & CO., KANSAS CITY MO.



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Valley Pump Co., Easthampton, Mass.

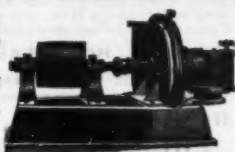


The Baldwinsville Centrifugal Pump.

OLDEST, BEST AND LATEST IMPROVED.

Especially adapted for contractors' use, Pumping
Coffer Dams, Sewers, Sand-Pumping, etc.
Irrigating Plants a Specialty. Address for catalogue,

IRVIN VAN WIE, 48 & 50 West St., Syracuse, N. Y.
Established 1861. Removed to Syracuse 1881.



Now is the time to arrange for Heating and Ventilating your Factory,
Store, Church, Theatre or School by the Hot Blast System.

ADDRESS THE ORIGINATORS,

HUYETT & SMITH MFG. CO., Detroit, Mich.

MANUFACTURERS OF

Fans and Blowers of Every Description.



HYDRAULIC JACKS.

BEST IMPROVEMENTS. MOST STYLES.

Hydraulic Presses, Hydraulic Pumps, Valves & Fittings,

Hydraulic Transfer Jacks for Removing Locomotive Drivers and Trucks.

LEVER PUNCHES and SHEARS.

WATSON & STILLMAN

204, 206, 208 & 210 E. 43d Street, New York.

THE BILLINGS
HARTFORD
MANUFACTURERS OF

DIES MADE IN 5
THREADS FROM

TO 2 INCHES V
U.S. STANDARD AND

DROP FORGED

& SPENCER CO.
CONN.

SCREW PLATES AND

SIZES CUTTING
1/4 OF AN INCH

THREAD ALSO
WHITWORTH THREAD

OF BAR STEEL

A. B. See Manufacturing Co.

PASSENGER AND FREIGHT

ELEVATORS

116, 118 and 120 Front Street,

BROOKLYN, N. Y.

The "BOSS" Washer.

Patented June 9, 1891.

The only double action in the market with
wheel attached to a crank shaft, and moves
upper and lower cylinder at the same time.
Runs either by hand or power. We defy com-
petition in ease of running, cleanliness, dura-
bility and perfectness in every particular.

SPECIAL TERMS TO DEALERS

SEND FOR CIRCULARS.

Mention MANUFACTURERS' RECORD.



The Boss Washing Machine Company,
No. 167 West Second Street, CINCINNATI, O.

"The MANUFACTURERS' RECORD is the Most
Widely-Quoted Industrial Paper in the World."

TRADE NOTES.

E. T. BARNUM, manufacturer of art wire and iron work, of Detroit, Mich., is making a handsome and artistic line of roof crestings, tower ornaments, finials, etc., as is shown by his new catalogue. He has supplied prominent buildings with iron work in all parts of the country.

THE Hotel Savoy, 59th street and Fifth avenue, New York City, have purchased for their electric-light plant three 100-horse power and one 60-horse power engines, through E. T. Copeland & Co., 106 Liberty street, New York. The engines are manufactured by The Ball Engine Co., Erie, Pa.

THE Ball Engine Co., Erie, Pa., built the 300 horse-power cross compound engine for the electric welding plant of Johnson & Co., of Johnstown, Pa., and have received an order for a 100 horse-power engine from the Tuscarawas Electric Co., Canal Dover, Ohio.

A REVISED price-list, which took effect August 1, has been issued by the Link-Belt Engineering Co., of Philadelphia, Pa. It is most conveniently arranged, and contains the most complete lists for elevating and conveying machinery. The great reduction in the price quoted on some of the chains attracts attention.

THE Tampa Phosphate Co., of Tampa, Fla., advertise in this issue of the MANUFACTURERS' RECORD that they are prepared to receive and fill orders for pebble phosphate running from 60 to 70 per cent. bone phosphate of lime. Correspondence with fertilizer manufacturers is invited.

JOSIAH ROSS, the well-known Buffalo (N. Y.) manufacturer of woodworking machinery, has issued a handsome colored hanger, advertising the output of his factory. The patent Champion planer, matcher and moulder, Monitor planer, matcher and moulder, improved buzz planer and heavy iron frame saw table are illustrated, and a view is shown of the new 14-inch fast flooring machine in operation.

THE Wm. Powell Co., proprietors of the Union Brass Works, Cincinnati, Ohio, have presented the trade with a new illustrated catalogue, which covers the field in the most effective manner. It is very complete; contains a great number of illustrations, and fully describes all the various new improvements in this company's specialties. It will be sent on application.

ONE hundred and thirty-six thousand square feet of 3-ply gutta percha roofing will be shipped to Tallapoosa, Ga., by the Empire Roofing Co., 111 North 4th street, Philadelphia, Pa., at an early date. It has been contracted for by the following new Tallapoosa customers: The Howe Ventilating Stove Co., 50,000 feet; Hitchcock, May & Co., 60,000 feet, and the Hayes Chair Co., 26,000 feet. This company publishes an excellent catalogue of roofing material which will be mailed on application.

"FOUR thousand acres in the heart of the richest phosphate fields of Florida" are advertised for sale in this issue of the MANUFACTURERS' RECORD. "It is guaranteed to produce 4,000 tons of clean pebble to the acre, and the analysis from 25 pits shows 70 per cent. phosphate of lime. This product is now, it is said, selling for \$7 per ton. Such lands usually sell at from \$50 to \$100 per acre, but this is offered at \$10 per acre." Particulars may be obtained by addressing "Pebble," care MANUFACTURERS' RECORD.

SECOND-HAND cotton machinery in good running order is offered for sale on page 50 in this issue by Davol Mills, Fall River, Mass. Full particulars given upon application.

The COLLIAU PATENT
Cupola Furnace.
Adapted to all Foundries,
The Most Economical,
The Lowest in Price.
MANUFACTURED EXCLUSIVELY BY
BYRAM & CO.
DETROIT, MICH.

REYNOLDS BROS
HAND CUT
FILES
COLUMBUS O. and FOR PRICE LIST
301-7 N. Water St.

JONES' SCALES
— THE BEST —
— FULLY WARRANTED —
5 Ton Scales \$60 FREIGHT PAID
Address **JONES of BINGHAMTON, N.Y.**

Save Money. **BICYCLE**
Before you buy
Send for prices to
A. W. GUMP & CO., Dayton, O.
New Bicycles at reduced prices, and 400 second-hand ones. *Difficultly Repairing.*
Bicycles, Guns and Type Writers taken in exchange
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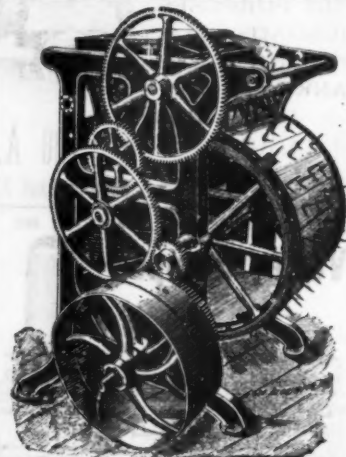
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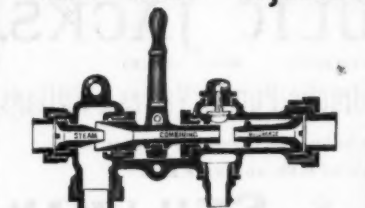
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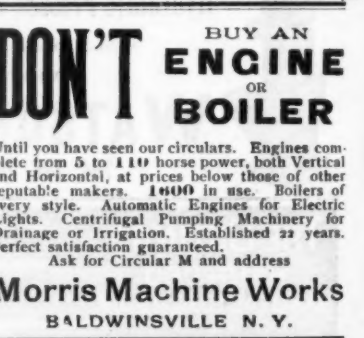
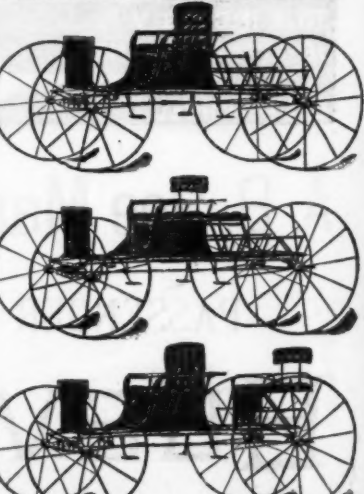
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This property is laid off in Residence and Industrial Lots. The most liberal provisions have been made for the accommodation of industries. It is useless to repeat the details of the many advantages of Covington and the prospective enhancement in values of the property of the

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It has three and others are under negotiation.

It has a 1,500,000 bushel grain elevator.

It will ship millions of bushels of grain this summer and fall.

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WEST VIRGINIA'S UNPARALLELED PROSPERITY.

Interview With Governor Fleming.

[Special Cor. MANUFACTURERS' RECORD.]

CHARLESTON, W. VA., Aug. 31, 1891.

A few weeks ago I was told by Major J. C. Alderson, who was my constant companion during a short stay at White Sulphur Springs, that West Virginia enjoyed the singular distinction of being the only State in the Union in which the recent tight times had failed to cause a reaction in real estate values. In other words, Major Alderson, who is probably the "best posted" man in West Virginia on the State's resources and progress, declared that there had been an unvarying upward tendency in West Virginia properties ever since the failure of the Barings, in London, and the great gold shipments from the United States.

Charleston is the capital of West Virginia, as everybody knows, and differs from most Southern State capitals in that it is headquarters for schemes of State development rather than of politics. This state of affairs is due largely to the fact that the governor of West Virginia is earnestly devoted to the development of the enormous resources of the State. It will be recalled that it was Governor Fleming who early in this year of grace wrote for the MANUFACTURERS' RECORD an article on the resources of West Virginia which was reprinted in pamphlet form by act of the legislature and circulated all over Christendom. I am persuaded that this single piece of literature did much to maintain values in West Virginia.

I told Governor Fleming what Major Alderson had said about the prevailing prices of real estate in West Virginia. "Yes," said he, "there is no town in West Virginia where lots are not selling higher than a year ago. Purchasers of coal, timber and oil lands are being offered from 100 to 1,000 per cent. advance on what was paid a year ago. We give the chief credit for making known the resources of our State to the MANUFACTURERS' RECORD. Do you see that file on that table there? Well, it is kept as sacred and as intact as if it were a divine revelation. That file cheats you out of scores of subscriptions, for it is now generally known that the MANUFACTURERS' RECORD can be found at my office, and as many as twenty men have come here in a single day simply to read it. Even your exchange list counts—that is to say, the country newspaper editors tell me that the MANUFACTURERS' RECORD is the most eagerly sought for exchange they receive, more so than any of the Eastern magazines."

Continuing, the governor said: "The value of the Mountain Lake Land Co.'s property has been enormously enhanced by the recent report made by you in the MANUFACTURERS' RECORD. Our people have confidence in the reports of your paper, and if Mr. Camden and Mr. Davis would use the columns of the MANUFACTURERS' RECORD more freely, the result would be a tremendous immigration to the sections which these railroads are opening up. And while we are talking about railroads, I want to emphasize the good work that the Chesapeake & Ohio Railroad is doing for the development of West Virginia. Mr. Ingalls, by his fair, honest and liberal policy, has made friends enough to elect him United States Senator, if he lived in our State. A number of lateral branches ought to be built by the Chesapeake & Ohio, and I believe will be built within a year or so."

But I must now tell what Gov. Fleming said about the State in general and in detail.

"We have so much," said he, "that is new and wonderful in our State that the subject never grows uninteresting. Observation constantly teaches us that we have heretofore scarcely appreciated the value of our resources. It has required a long time for our own people to discover what they really have and to realize their own advantages. During a long period many of our enterprising young men emigrated to the West and sought homes in less favored but more progressive places, but now that our people have awakened to the realization of what they have, you seldom hear of capital and emigration leaving West Virginia. The situation is reversed, capital comes here seeking profitable investment, labor finds ready employment and receives liberal remuneration, while both receive the protection of equitable laws."

"Can you tell me something of your timber, minerals and oil?"

"Your question well answered would make a volume. Our forests are the finest in the Union. It is estimated that about 8,000,000 acres, or nearly one-half the acreage of our State, are still covered with the original forests of both hard and soft woods. Almost all our timber is now or soon will be within reach of the great lumber markets of the country by the railroads already completed and under course of construction, and by the rivers draining the State. These timber lands within the last few years have rapidly increased in their values, and yet the rate of increase will be still more rapid within the next few years. In the interior of the State one acre can now be purchased for what a single tree will bring when made accessible by a railroad. Every year vast fortunes are made from this product. It is to be regretted that the original owners of these forests have realized so little from them. The keen eye of the speculator and capitalist has not been slow to discern the large and quick returns which these lands will yield, and have acquired many acres of them. Investments in timber lands within easy reach of a railroad or river make quicker returns than anything else within our borders. A saw mill and a few oxen are all that is necessary to prepare our woods for markets where they find a ready sale at remunerative prices."

"And how about iron ores?"

"We have quantities of iron ore of a high grade in various portions of the State, and especially in the Southeastern section, to say nothing of the enormous quantities of ore within the counties of Braxton, Preston, Jefferson, Berkeley, Morgan, Hampshire, Hardy, Grant and Pendleton. The construction of the new lines of railroads now building in our State will bring these ores into close proximity to the great coking coal beds; then we may expect to become a great iron-producing State. Limestone abounds everywhere, and we may safely predict that the iron industries of the North will be unable to hold their own against those which we assuredly will soon have within our own borders."

"Our coals," continued the governor, "abound everywhere, and, in quality, are inferior to none. The entire State is embraced by the Appalachian coal measures, excepting a few extreme northeastern counties. Indeed, West Virginia contains one-thirteenth of all the coal in our country, or about 16,000 square miles. A large proportion of it lies above the water level, and is mined with the greatest ease. I know of one instance in my native town

where it was necessary to remove a nine-foot vein in order to construct foundations and cellars for a house, and an opening was left in the cellar walls and coal mined for family use for a score of years from under the yard and garden. In places coal openings are so near the residences that coal houses are rendered unnecessary, and entries at the mouths of mines are used for milk houses. Not only have we 16,000 square miles of coal, but in the same hill or mountain will be frequently found one vein upon another of different kinds of coal. Within a few miles of this point the finest veins of bituminous, cannel and splint coal appear one above the other, and all above the water level. I know of one place in Boone county some 30 or 40 miles from a railroad where there are ten seams of coal, one above another, from two to twelve feet in thickness, and aggregating 68 feet of coal from top to bottom. The mountain in which this remarkable deposit is found is about 1,300 feet high, and one of the veins is pure cannel coal $3\frac{1}{2}$ feet thick. The finest coal and timber region of our State, not now accessible by a railroad, and to which no railroad is being constructed, is the great Coal River basin, which embraces all the lands of Boone, a portion of those of Kanawha, Lincoln, Logan and Raleigh counties. Coal river and its tributaries drain about 1,000 square miles, or 640,000 acres of land. In addition to the vast quantities of coal underlying these tracts, it would be vain to attempt an estimate of the quantities of timber with which they are covered. About nine-tenths of the Coal River region is still covered with forests."

"Speaking of petroleum," said Governor Fleming, "West Virginia bids fair to rival any other field in the production of petroleum. Developments have been somewhat retarded of late by reason of the reduced price of the product. There are several producing fields on parallel lines in our State, the largest quantities now being the Eureka and Belmont fields in Pleasants county, on the Ohio river, and the Mannington, Fairview and Doll's Run fields in Marion and Monongalia counties. For a long time it was supposed the Pennsylvania State line separated us from the oil-producing territory, and it was a surprise to some that oil was found in West Virginia. This same class of people supposed the Pittsburg seam of coal would not make coke south of the Pennsylvania line—but more of this later. I base my idea of the value of our State as an oil-producing territory upon the fact that such vast quantities are being produced in so short a time after the discovery of oil on these new lines, and the millions of dollars being expended in its development, but more especially upon the fact that the Standard Oil Co. is acquiring leases all along the lines of these new developments, and is spending money so freely as to make it apparent that they have the greatest confidence in West Virginia as an oil-producing State."

"Governor, you mentioned railroads completed and under construction in your State. Can you tell us something of these?"

"Well, you are already familiar with the old lines running east and west, the Baltimore & Ohio and the Chesapeake & Ohio. Under their present liberal management these roads are doing all they can to develop the country along their lines. Their liberal freight rates have given the coal and coke industries a wonderful impetus. The third east and west line, and one of the new railroads, is the Norfolk & Western, a most admirably managed and liberal road, which has penetrated the southern section of our State, and within a year will be completed along our southwestern border through the

new and growing town of Kenova, at the mouth of the Big Sandy river, where it crosses the Ohio and forms connections with the systems leading to the great West and the Lakes. This railroad has worked a revolution in the values of real estate along its line, and made accessible to the markets of the world vast coal, iron ore and timber regions. The lands along this line, which a few years ago sold for a dollar or two an acre, are now in demand at greatly increased figures. The first cross-line railroad constructed in our State was the Ohio River Railroad, more than 200 miles long and connecting the first and second cities, Wheeling and Huntington. We now have crossing our State, from north to south, the West Virginia Central and the West Virginia & Pittsburg Railroads, partially constructed, and soon to be completed, to Marlinton in Pocahontas county, at which point they will form a junction, and then, or at the State line, connect with the Chesapeake & Ohio. These are the roads which are reaching into the iron ore regions of Virginia and West Virginia. Too much praise cannot be accorded to ex-Senator Davis, of the West Virginia Central, and to ex-Senator Camden, of the West Virginia & Pittsburg, the projectors and leading spirits of these respective roads. The West Virginia Central has its northern terminus at Cumberland, Maryland, and passes through the fine coal, mineral and timber regions of Mineral, Grant, Tucker, Randolph and Pocahontas counties. The Camden system, including the Monongahela River Railroad, having its northern terminus at Fairmont, on the Baltimore & Ohio, passes through the superior coal fields of the Upper Monongahela valley, in the counties of Marion and Harrison, and the timber lands and coal fields of Upshur, Lewis, Braxton, Nicholas, Webster and Pocahontas. One branch of this road is completed and ready for traffic to Newlon, 40 miles above Buckhannon, and another branch to Sutton, the county seat of Braxton county, on Elk river, about 100 miles northeast of Charleston. Subscriptions are now being made by counties and individuals to a railroad to be built along Elk river from Charleston to Sutton, connecting with the Camden system. This road will pass through heavily timbered and splendid iron ore and coal sections. There are some other short lines being constructed within our State. The West Virginia Central is building from Elkins in Randolph county to Belington in Barbour county, where it will connect with the Grafton & Greenbrier Railroad, narrow-gauge, now being made a standard-gauge to Grafton on the Baltimore & Ohio main line. Ex-Senator Camden is building a line from Ravenswood, on the Ohio River Railroad, through Jackson county to Spencer in Roane county. It is contemplated to continue this road through Calhoun and Gilmer counties, and connect with the West Virginia & Pittsburg at Weston, in Lewis county. So far as I have mentioned railroads, I have confined my remarks to those completed and under way, except the Elk River Road, the building of which is expected to begin in the early part of next year."

"What of your agricultural interests?"

"A description of our resources might lead a stranger to believe that there was but little farming land within our State, because minerals usually abound in rough and mountainous sections. While a great portion of our State is mountainous, the elevation being pregnant with minerals and covered with forests, we have an abundance of fine agricultural and grazing lands. The entire northern section of our State, the Ohio, Kanawha, Monongahela and South Branch valleys, and some of the lands lying along the tributaries of these rivers, are choice for farming and grazing purposes. In almost all sections of our

State the hills are fertile, and, even where steep, are carpeted with a splendid blue-grass sod to their very tops. Our agricultural lands produce abundant crops, and are well adapted to fruit growing. Notwithstanding all these advantages, however, farming has not been as profitable as it should be, and farmers are not as prosperous as they deserve. This may be attributed in part to the low prices received for their produce and the high prices they are required to pay for everything they buy. The improved price paid for cattle and the foreign demand for our cereals will, I trust, improve their financial condition."

"Do your manufacturing and mining interests prosper?"

"Our largest manufacturing industries are located at Wheeling and vicinity, Parkersburg and Huntington, at least those which have long been in operation. Many new manufacturing are being erected elsewhere. And every manufacturing enterprise, as far as I am advised, is paying handsome returns. I know of no industry of importance whose doors have closed within the last two years. Wheeling is the largest city of our State and a famous manufacturing center. Among the many large manufacturing interests there are the steel tube works, the only one in the United States. More nails are made in Wheeling and vicinity than in any other city in the world. Huntington, the second city in point of population, and a very progressive place, is becoming largely interested in manufacturing establishments. The Ensign Car Works there employs between 800 and 1,000 men. Central city and Kellogg are new towns lying between Huntington and Kenova, and are rapidly coming into prominence as manufacturing points. These places are coterminous, and within them has recently been constructed a large powder manufactory, while three large glass works and other industries which I cannot now name are in course of construction. By the way, I desire to emphasize the fact that the territory within the counties of Cabell and Wayne, on the Ohio river, between Huntington and Kenova, and which embraces Central city and Kellogg, is perhaps as well situated for manufacturing purposes as any point in the Union when its transportation facilities and proximity to raw materials are taken into consideration. This section is within easy reach of the choice coal and coke of the Pocahontas, Kanawha and New River regions, timber of all descriptions, abundance of manganese, glass sands, limestone and fire and ordinary red brick clays. Several competing lines of railroads center here and are connected by a belt line, while the Ohio river serves as a formidable competitor and regulator of freights."

"As to the mining interests," the Governor went on to say, "the increase in the output of coal and manufacture of coke has exceeded all expectations. In 1880 our State produced 1,568,000 short tons of coal and so little coke that no accounts are given. In 1889 she produced 4,726,047 long tons of coal and 665,193 tons of coke. It is estimated that the production of coke during the last year amounted to more than 1,000,000 tons. This remarkable increase is due partly to the high merit of West Virginia coal and coke, and partly to increased railroad facilities. For years I have not known of a single mine to close for any considerable length of time, or a plant of coke ovens to lie idle for the want of a market for their products. Our greatest hindrance has been that the railroads have at times been unable to carry our product for want of a sufficient number of cars and locomotives."

"Governor, you have named a few of the principal cities and towns of your State, what of some others of promise?"

"Charleston here, the capital city, is enjoying a most substantial growth; many large buildings of iron and stone fronts are now in process of construction. Numerous dwellings are building, too, and yet both business and dwelling houses are scarce and rents very high. The wholesale trading of this place aggregates about \$8,000,000 annually, and yet we have only 12,000,000 people, including the suburban population. I might mention Parkersburg which is one of the handsomest and best points in our State, and has within her limits a very progressive people. Charlestown, in the northeastern end of our State, is growing rapidly, and many manufacturing industries are locating there, many of them coming from the Northern States. Grafton, a town of four or five thousand souls, is a railroad center and has the Baltimore & Ohio Railroad shops. Martinsburg is another prosperous town, has the advantage of two railroads, and promises to make a thriving city. Morgantown is the seat of West Virginia University, and is located on the Monongahela branch of the Baltimore & Ohio Railroad and on the Monongahela river. A daily line of boats ply between this point and Pittsburg, Pa., and they have here the advantages of natural gas and pure mountain water. Fairmont, on the main line of the Baltimore & Ohio Railroad, at the southern terminus of the Fairmont, Morgantown & Pittsburg Railroad and at the northern terminus of the Camden System Railroads, is one of the advancing towns of our State. It is the center of the mining region of the Upper Monongahela valley, and is sometimes styled the Connellsville of the Upper Monongahela coal field. Hundreds of thousands of dollars worth of coal lands have changed hands in the vicinity of Fairmont within the past year, and a number of coal mines have been opened and many coke ovens constructed. Fairmont gives promise of still wider development. Clarksburg is in the midst of a fine agricultural district and is one of the wealthiest and most conservative towns in our State. It is surrounded by coal mines and coke ovens, too, and these add much to her wealth. Weston and Buckhannon are progressive towns near the center of our State on the Camden system of railroads. Weston has the West Virginia Hospital for the Insane, an institution which was considered to be the finest in the United States at the time the plans for the buildings were adopted, thirty years ago. Buckhannon has a Methodist college with a fine attendance and excellent prospect. Moundsville, at the junction of the Ohio River and Baltimore & Ohio Railroads, is likewise one of our growing towns. The West Virginia penitentiary is located here, and negotiations are being conducted with and inducements offered to manufacturing industries with a view to removing them to this point. Piedmont, on the Baltimore & Ohio, Elkins and other points on the West Virginia Central, show evidences of great prosperity. I have not omitted to mention Bluefield, Branwell and other points on the Norfolk & Western because they show no growth—they do, and there are several new towns in that section with good prospects. Most of these towns mentioned have their electric plants, their water works, street railways and wide-awake newspapers."

"Who leads in this remarkable development and railroad building? Is home or foreign capital employed?"

"Our home people are in the lead in almost every enterprise. The avenues of business and investment are so diversified that it would seem impossible for home capital to fill them all. Much foreign capital has been invested in this State within the past few years, and more especially in

railroad building, mineral and oil lands and mining and manufacturing industries. The foreign capitalist has always received a cordial welcome."

"What has been the effect of the stringency of the money market upon values and business in your State?"

"It has merely checked whatever wild and reckless speculation existed; but legitimate business has continued just as brisk, and values are even better than ever before. I do not know of a single investment made within our State during the past two years, except wild-cat oil speculations, on which parties have lost or will likely lose. Property is just as high to-day and even higher than a year ago. Of all the Southern States I doubt if any has suffered less than West Virginia from the depression of the money market."

"How is this accounted for?"

"Simply because our values have never been inflated and much money has come into the State, while comparatively little goes out. Our own people as a rule trade prudently, and I do not recall a single failure of consequence within the past twelve-month."

As the governor concluded, Secretary of State W. A. Ohley dropped into the executive chamber and was introduced. His department has exclusive supervision of the granting of corporate franchises under the general laws of the State, and I asked him:

"How do the corporation records of your office show up the business of the State?"

"Well," said the secretary, "they present the very best evidence of the State's rapid growth industrially, financially and commercially. The number of charters granted in 1889 was largely in excess of the number issued in any former year, and the new enterprises chartered to do business in West Virginia alone during the last twelve-month exceed in number those chartered in the previous year by, I should say, at least 25 per cent. An idea of the magnitude of new business ventures in the State may be obtained by the number and character of corporations chartered during the first three months of the current year. Within that time, from January 1st to April 1st, 1891, there were incorporated 16 oil and gas companies, with an authorized capitalization of \$3,550,000; 10 railroad companies, with authorized capitalization of \$7,780,000; 12 coal and coke companies, with authorized capitalization of \$7,875,000; five banks and banking institutions, with authorized capitalization of \$1,150,000, and 41 miscellaneous corporations, such as manufacturing companies, lumber companies, electric-light companies, building and loan associations, etc., with an aggregate authorized capitalization of \$16,150,000."

Your corporation laws are very liberal in their general features, are they not?

"Yes; our law-makers seem to have had in view the development of the State's vast natural resources, and as the accomplishment of this under present conditions could only be expected through organized and combined capital, they legislated accordingly, and no unnecessary limitations or restrictions are interposed by the law to the formation of corporations, nor are needless exactions required of them. Except a merely nominal license tax, corporations are taxed only upon their property actually owned and held within the State. There is no tax on capital stock as such, and the simplest regulations consistent with safety are prescribed for their management."

Just as I was about to leave Governor Fleming's office, he asked me if I knew Mr. Frank Woodman, the most noted promoter of Charleston's prosperity. "Of

course," I replied, "I know Frank Woodman, and I understand that you are a director in the great Mountain Lake Land Co., of which Mr. Woodman is the controlling spirit."

"It was not to talk about Mountain Lake," said the governor, "but of Frank Woodman, that I called you back. He is Charleston's most valuable citizen. Coming here some 15 years ago he started a woolen mill, and afterwards a furniture factory, and a couple of brick-yards and the city water works, of which he is the leading stockholder. For years he managed the gas works, now consolidated with the electric-light plant. He is now building an opera-house in Charleston, with a front of brown-stone from the New River quarries. This building would prove a credit to a city of a hundred thousand inhabitants."

THOS. P. GRASTY.

SOME of the English manufacturers of textiles are introducing a finishing method by the use of which, it is asserted, the materials become of considerably greater strength, acquire a greater capacity for containing or absorbing natural moisture, have a more regular as well as close and glossy appearance, take up dyes and coloring matters much more quickly and economically, and will dye richer and faster shades. The materials, whether in cops, hanks or woven lengths, are first treated with a strong solution of sodium hydrate, which changes or modifies the cellulose by combining with it, the soda in this combination being subsequently eliminated by washing; this is done after the materials have been removed from the bath, and as much of the absorbed liquid as can be removed by mechanical squeezing, thoroughly impregnating or rinsing the material with warm water, this being showered upon it in a fine spray to completely saturate it, though using as little as possible. The water decomposes or dissipates the soda cellulose combination and dissolves out all the hydrate of soda taken up by the fibre, but at the same time without changing back the fibre to its original condition, though modifying it, so that when seen under the microscope the native flattened spiral cellulose cell has become a straight cylindrical one, with thicker walls. The sodium hydrate eliminated can be regenerated, and the solution is concentrated by a multiple effect evaporator, then returned to the bath, and be available for future use.—New York Sun.

THE Louisville & Nashville Railroad has adopted the policy of assisting land owners in its territory to dispose of their surplus holdings. To this end it has issued posters bearing the signatures of C. P. Atmore, general passenger agent, and S. R. Knott, general traffic manager, announcing that they will hereafter advertise and negotiate the sale of lands in the country tributary to its line, the purpose being to publish lists of purchasable lands, together with descriptions of the country, the soil and climate, possibilities and prospects, which publications will be placed in the hands of the agents of the roads at all points and distributed over the East, where they would be likely to meet the eye of possible purchasers.

AN illustration of Southern industrial progress is seen at Buena Vista, Va., which two years ago was a wheat field and where now among over a dozen manufacturing enterprises are the Rarig Machine Shops, having four brick buildings aggregating 1,400 feet in length and 200 feet in width, making the heaviest castings ever turned out in the State, building the heavy machinery for blast furnaces and doing general engine and machine building work. These shops have just made a 13-ton casting for a new furnace which they are building at Iron Gate, Va.

Star Steam Tube Boiler.

The Star water tube boiler for steam or hot water heating for power is rapidly attaining prominence among the heating engineers.

Among the many good points claimed for this boiler are: Small cost of erection and portability; it requires no brick setting; access to exterior and interior for cleaning; inspection or repairs; small floor space required; low water line of boiler; its form of construction, embodying strength and compactness; its rapid steam generating qualities, due to the superior value and arrangement of the heating surfaces and the mode of firing.

The Star water tube boiler, "Lindemuth's patent," consists of an inside and outside shell. The inside shell or the fire-box is two inches smaller on each side and three inches shorter on each end than the outer shell. This space forms the water space on all sides of the fire-box between the inner and outer plates. The top of the inner or fire-box shell, which forms the

water spaces. The tubes are lap-welded wrought iron tubes, placed in an inclined position and "staggered" (or so placed that each horizontal row comes over the space in the other row) for hard coal and in vertical rows for soft coal. The openings for cleaning interior of tube from lime or sediment opposite the end of each tube are closed handhole plates, which are held in place by clamps and bolts.

A cast-iron box or base full length and width of boiler, fitted with shaking grates, is furnished with every boiler unless otherwise ordered. This base does away with brick setting, all that is necessary is to put the box together (the box is shipped knock down), set the boiler on it and make connections and all is ready for operation.

To operate this boiler the fires is made under the front and higher end of the tubes, and nearly at right angles with the heating surfaces, and the current of the gases and radiant heat from the fire, in their passage from the grate to the flue, are intercepted and broken up by deflecting

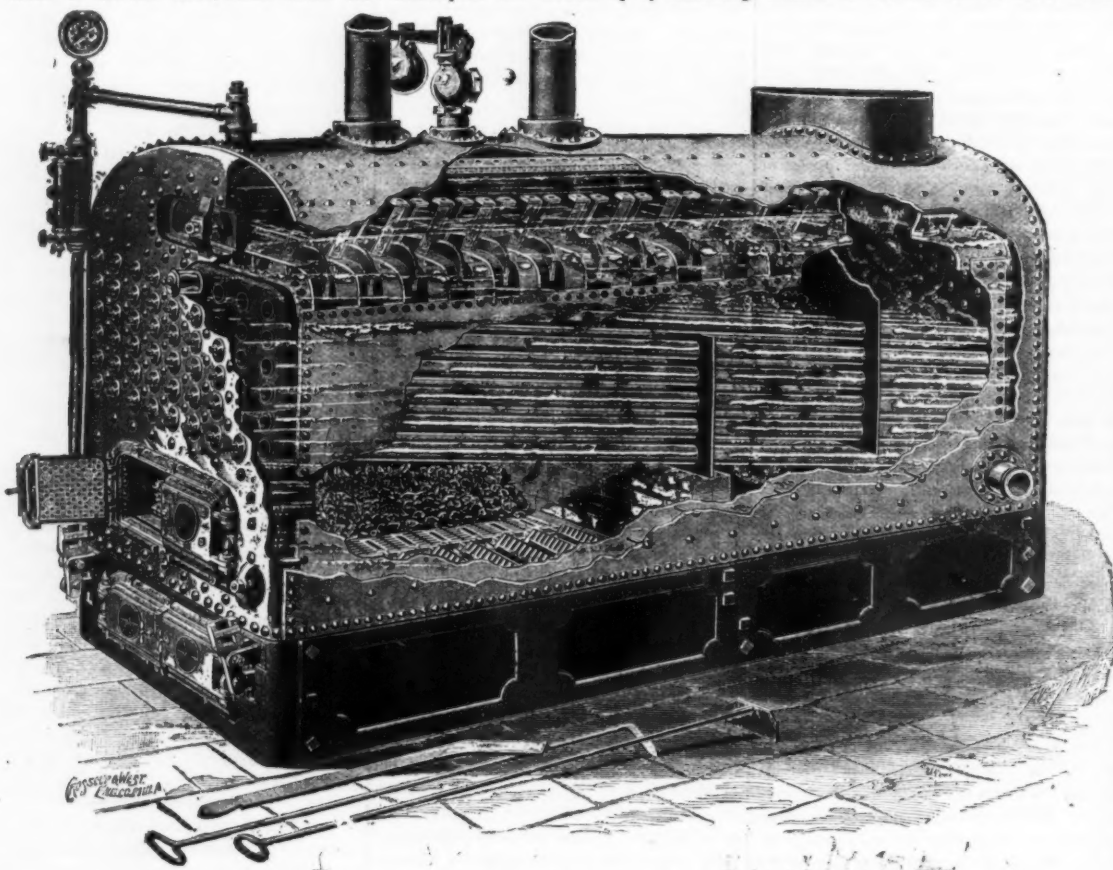
in a continuous circulation. The passages are all large and free, the circulation is very rapid, sweeping away the steam as formed and supplying its place with water. The crown sheet being concave to the fire has the advantage of being most favorably adapted for raising steam and receiving the radiant heat; of facilitating the access of fresh supplies of water to replace the heated ascending particles, thereby promoting the circulation; of boiling off the matter deposited by the water, and so preventing incrustation and in being stronger and more durable. The inside tube sheets acts, perhaps, as effectively as the crown in transmitting the heat per unit of area, the rapid impingement of the flame and hot gases compensating for any disadvantage to its vertical position. The value of the sides of fire-box should not be under estimated, as the heat is received at a favorable angle, and allows the steam bubbles to escape freely.

The draft area, which in fire tubes is limited to the area of the tubes in this

Handholes opposite each end of the tubes permits access thereto for cleaning; handholes at different parts of the boiler make the interior of boiler accessible for cleaning. Openings are provided above tubes for cleaning crown sheet and outside tubes, while the occasional use of steam through a blowing pipe attached to a rubber hose will keep the tubes clean from soot and in condition to receive the heat to the best advantage. From the position of the ordinary fire title or flue, receiving the dust from the fire on the interior, is quickly covered from one-half to one-third its surface, and in time is completely filled. The water tube, however, will retain but a limited quality on its upper side, after which it becomes, in a measure, self-cleaning.

The heating surface presented in the construction is of the most valuable description, more than 30 per cent. of surface being fire surface and balance being water tube surface. One foot of the former surface being estimated to have three times the value of a foot of flue surface in the horizontal tubular boiler, and the latter at least 20 per cent. more. The fact of boiler being internally fired adds to its economy, as there are no brick walls to absorb the radiant heat from fire.

Particulars and prices will be furnished by the makers, Harrisburg Boiler & Manufacturing Co., Harrisburg, Pa.



STAR WATER TUBE BOILER.

crown sheet, is slightly concaved, while the outer shell forms a half circle. The inside and outside shells are united to each other by a ring or water leg, which completely surrounds the inner shell and closes the water space between the two shells. This ring is made the proper shape to extend around the bottom of the inner shell, and is riveted to both shells. The space between the top of the inner and outer shell forms the water and steam space of the boilers, varying in the different size boilers. These respective shells are stayed by stay bolts screwed through the plates at regular distances, depending on the working pressure of the boiler. The side of these shells vary from $\frac{1}{4}$ to $\frac{3}{8}$ -inch, and heads from 5-16 to $\frac{1}{2}$ -inch (either steel or iron) as preferred. The crown sheet is strengthened with stay bolts similar to those used on the sides, which pass through the inner and outer shells or by angle or tee iron braces.

The water tubes are expanded into accurately drilled holes in the tube sheets, which form the front and rear heads of the firebox of boiler, and thus connect the

plates or bafflers, which are so placed as to deflect the current of the flames or gasses, and cause them to travel around the tubes at right angles with tube surface, three times in their passage from grate to flue, as well as coming into contact with firebox surface at all points, thus utilizing all the heat possible.

From the method of firing under the front and higher end of the tubes, nearly at right angles with the heating surface, the water tends to circulate in one direction, consequently there are no interfering currents, the steam is carried quickly to the surface, and all parts of the boiler are kept at nearly an equal temperature preventing unequal strains, the water inside the tubes, as it is heated, rises toward the higher end and is converted into steam, the mingled columns of water and steam being of less specific gravity than the solid water at back end of boiler, rises through the water space at end into the space above the crown sheet where the steam separates from the water and the latter flows back to the rear and down again through the water space and tubes

boiler, is the whole chamber or fire-box in which the tubes are enclosed. The current of gasses passes around the tubes and are thoroughly mingled by passing between the staggered tubes, and then pass into the combustion chamber above tubes where the gasses can be held until combustion is complete. Its superior steam-making qualities are due to the fact that the water is divided into many small streams in the tubes, which water passing through the hottest part of the furnace, steam may be raised rapidly and sudden demands on the boiler may be met by a quickly increased efficiency.

The rapid circulation of the water in this boiler by keeping all parts at the same temperature prevent, to a large extent, unequal expansion (the frequent cause of explosions), while the division of the water into small masses prevents serious destructive effects in case of accidental rupture. So powerful is the circulation of the water that no part will be uncovered to the fire until the quantity of water in the boiler is so far reduced that if over-heating should occur no explosion would result.

THE constitutional convention of Mississippi last year provided that the leasing of State convicts should cease in 1894, and at an earlier period if the legislature could provide some safe and suitable plan of caring for them. The people of that State have long objected to the leasing system, but what to do with their convicts was a debatable question. It has now been determined to buy a large farm and to employ all prison convicts upon it. Bids were invited, the State at the same time giving notice that no offer of less than 3,000 acres would be considered. Offers poured in from all points of the State, and the commissioners appointed to select a suitable location are now engaged in examining these properties. Their decision will be announced in a few weeks and the purchase made. Then, as soon as the necessary buildings can be made ready, the convicts will be removed from the prison at Jackson, and the property it occupies, covering four squares in the residence part of the city, will be sold. The new constitution provides for the employment of convicts on levees and other public works, but under supervision of the State instead of under leases to contractors. In North Carolina some years since an experiment in the same line was made and proved successful. Near Raleigh is a large farm on which tobacco, vegetables and other crops were cultivated, and much of the food consumed in the penitentiary was supplied from it. While most of those confined there were unfit for severe muscular labor, they were much better off than those confined in the penitentiary. The recent troubles at the coal mines of Eastern Tennessee have created a feeling in all the States that have heretofore employed the lease system, that some other should be adopted, and this action of Mississippi may be generally followed, if the experiment of that State shall be a success.

THE Ball Engine Co., Erie, Pa., have opened a branch office in Chicago, in the Rookery Building, Room 506. Mr. Albert Fisher, widely known as a successful salesman and an agreeable gentleman, has been appointed manager, and will be glad to see his friends in his new quarters. Mr. Fisher has had a large experience in engines, and success is predicted for him in his new connection.

The American Pure Food Mfg. Co.

OF WASHINGTON, D. C.

Office and Factory, No. 724 Eleventh Street, Northwest.

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PAR VALUE OF SHARES, \$10

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PROF. JAMES R. ROGERS, M. D., Ph. D.

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A. D. MACK, formerly of Brunswick Baking Powder Co.

CHARLES S. ROGERS,

EDWARD A. OLDHAM,

P. W. ROBERTSON,

HENRY J. BERKLEY, M. D., Baltimore, Md.

THIS COMPANY was recently incorporated under the laws of West Virginia, and has purchased, and is preparing to continue on a larger scale, the business of the Brunswick Baking Powder and Windsor Flavoring Extract Co., formerly established in New York City and afterwards moved to Washington.

In addition to the manufacture of

THE PURE FOOD BAKING POWDER

and Flavoring Extracts, for both of which a high class of trade has been built up, this company owns old and tested private formulas, and will, in course of time, include in its manufacture a wide and varied line of Pure Food specialties, including the following:

Self-Raising Flour and Buckwheat, Farinaceous Foods, Custard and Curry Powders, Tomato and Mushroom Ketchups, Worcestershire, Yorkshire, Chutney, Windsor Soy, Celery, Fruit and other choice sauces; Salad Dressing, Marmalades, Sweet and Plain Pickles, Mince Meats, Preserves, etc.

The goods manufactured by this company will be put out in a thoroughly first-class and merchantable manner, sufficient to satisfy the most fastidious tastes. The package in which the Pure Food Baking Powder will be put up will be especially attractive, and is by all odds the handsomest in the market.

Honesty in quality and quantity is the company's watchword, and upon this platform it proposes to become food purveyors to that largely increasing class who are demanding honest weight, and absolute freedom from deleterious adulterants.

As an evidence of the undoubted merit and superiority of the Baking Powder and Flavoring Extracts this company will manufacture, it need only be stated that other makes, long on the market, have, in many instances, been displaced by them in the PRESIDENT'S MANSION and in the homes of many of the Cabinet Officers, as well as in many of the most prominent families of the Nation's Capital, and in a large number of the first-class hotels of New York, Washington and other cities, while the demand from grocers in these cities alone has far outgrown the supply, and made absolutely imperative the organization of a larger company to increase the capacity of the factory.

Hundreds of testimonials, certifying to the strength, purity and excellence of these goods, are in the possession of the company.

The formula from which this baking powder is manufactured was originated by a London chemist, and for years prior to its introduction in this country, was well and favorably known throughout Europe as the Zephyr Baking Powder. Many of the leading medical men of London have testified to its absolute purity, and for years the company offered a standing reward of \$1,000 if alum or any other deleterious substance could be found in its ingredients.

That there is an enormous profit in baking powder, is amply attested by the wonderful growth of business and tremendous dividends reputed to have been paid by the companies that manufacture the leading brands. It is an article of as universal necessity as salt, and the scope of operations is therefore practically unlimited. With the trade in hand, and in easy reach, the stockholders of the American Pure Food Company may be assured of future gratifying dividends.

The annexed newspaper clippings will throw some light on the pecuniary possibilities of the baking powder business:

From the New York Herald.

The making of baking powder seems to be a profitable business. The best conducted company in the United States, the Royal Baking Powder Company, made net profits of \$725,162 in 1887, the gross sales amounting to \$2,657,987. These facts became public as the result of a suit brought by one of the partners in the concern to restrain

Mr. J. C. Hoagland and his son and brother from drawing salaries amounting altogether to \$86,000 a year. In view of the great success of the company, it seems natural that the Hoaglands should be well paid for their work, but it is interesting to know that the Royal Baking Powder Company pays its president as much as the people of the United States pays theirs—\$50,000.

From the Washington Post.

Mr. Ziegler, of Brooklyn, was, until recently, the owner of forty per cent. of a baking powder business in that city. He had two partners, with whom he failed to agree, and, as they had the controlling interest, he sold out to them, receiving for his share, \$2,500,000. Those who know, say he sold cheap, but as he has already over \$8,000,000 invested in real estate and gilt-edge securities, besides a palatial residence, a yacht, some good horses, etc., it is probable he could stand it. Mr. Ziegler landed in Brooklyn twenty years ago, with a moderate capital, amounting to \$12.50. It looks as if there were profitable business in baking powders—something to make a man rise in the world, as it were.

A BLOCK OF ONLY 1,000 SHARES

Of the capital stock of the American Pure Food Company is offered for sale upon the specially attractive and accommodating terms of one dollar per share on subscription, and one dollar each month thereafter till all of the amount is paid.

SUBSCRIPTIONS

Will be awarded in the order of subscription to subscribers, and will be received at the company's office, No. 724 Eleventh Street, N. W. Washington, D. C., and in Baltimore by Messrs. H. B. Whitely & Co., Bankers and Brokers, Calvert and German Sts.

Stockholders will have no personal liability beyond the par value of the shares.

The capital stock of the company has not been inflated for the purpose of speculation, as is too often the case, and as an evidence that the business thus being enlarged is a legitimate and permanent enterprise, the fact may be stated that the principal stockholders have entered into a formal agreement not to dispose of their stock for three years at least.

For the general standing of the company and its officers, reference is given to Bradstreets and Dunn's Commercial Agencies, also the Ohio National Bank, its depository.

The following blank form is offered for the convenience of those who wish to subscribe for a portion of the 1,000 shares now being offered:

AMERICAN PURE FOOD MANUFACTURING CO.

No. 724 Eleventh Street, N. W., Washington, D. C.

Gentlemen—Find enclosed New York exchange (check or money order) for \$....., covering payment of one dollar per share for..... shares of the capital stock in your company. It is agreed by me or us that the deferred payments are to be made by the first of each ensuing month till paid, and are to consist of one dollar for each share taken.

Yours respectfully,

Signature.....

Postoffice.....

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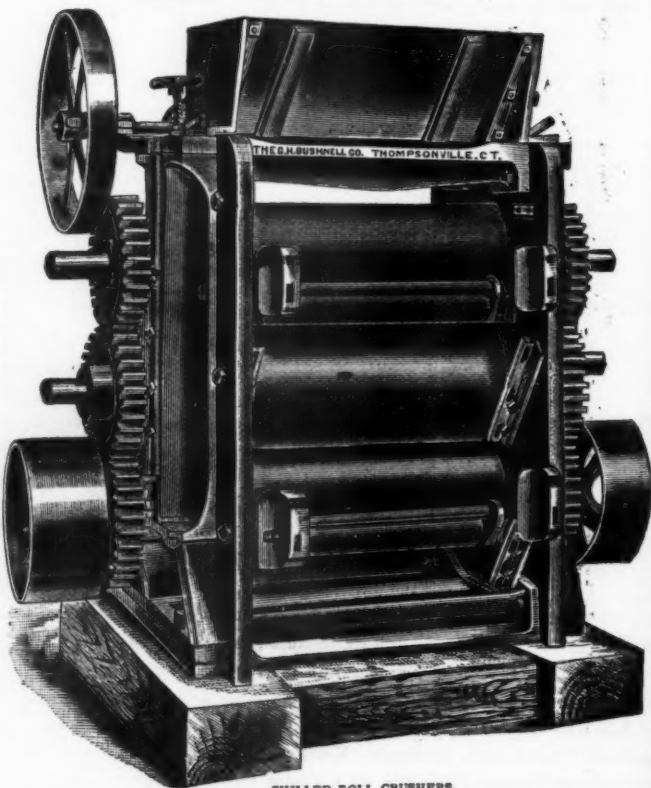
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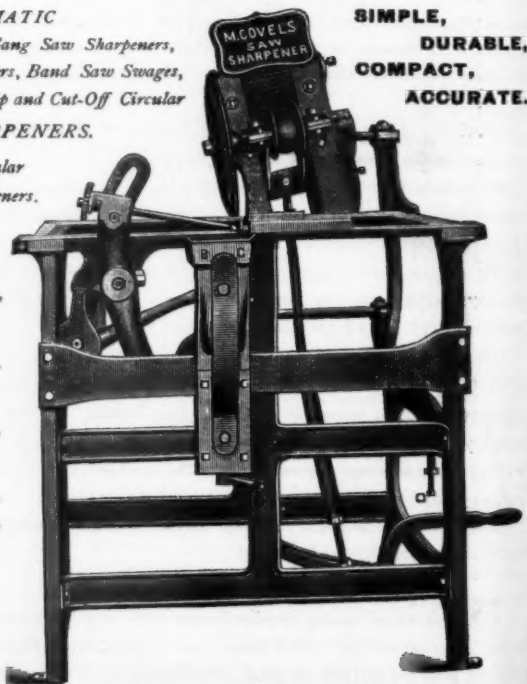
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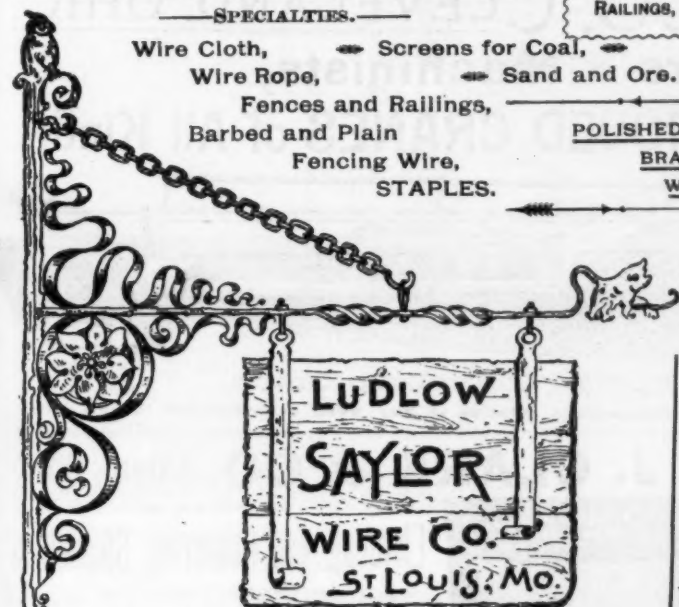
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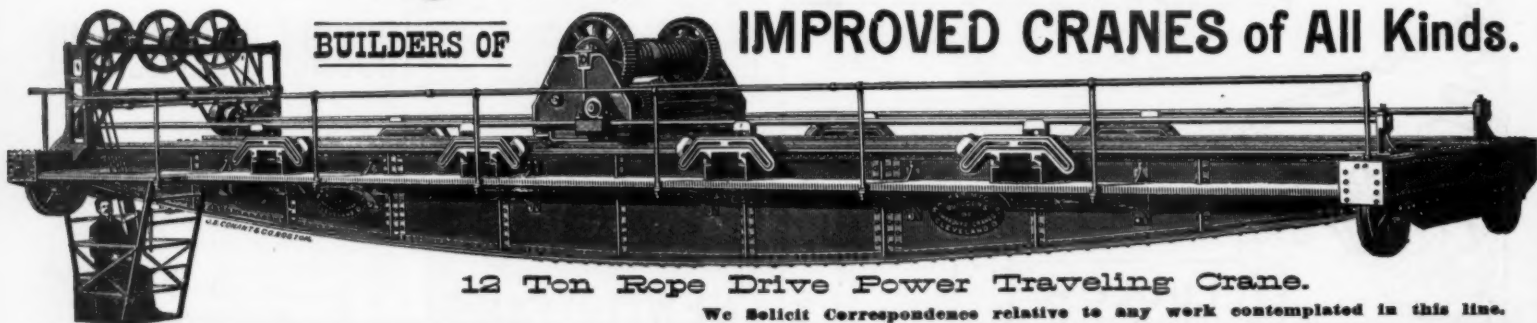
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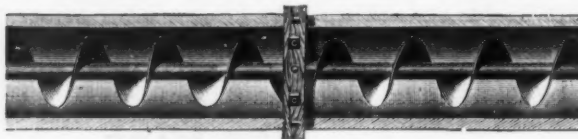
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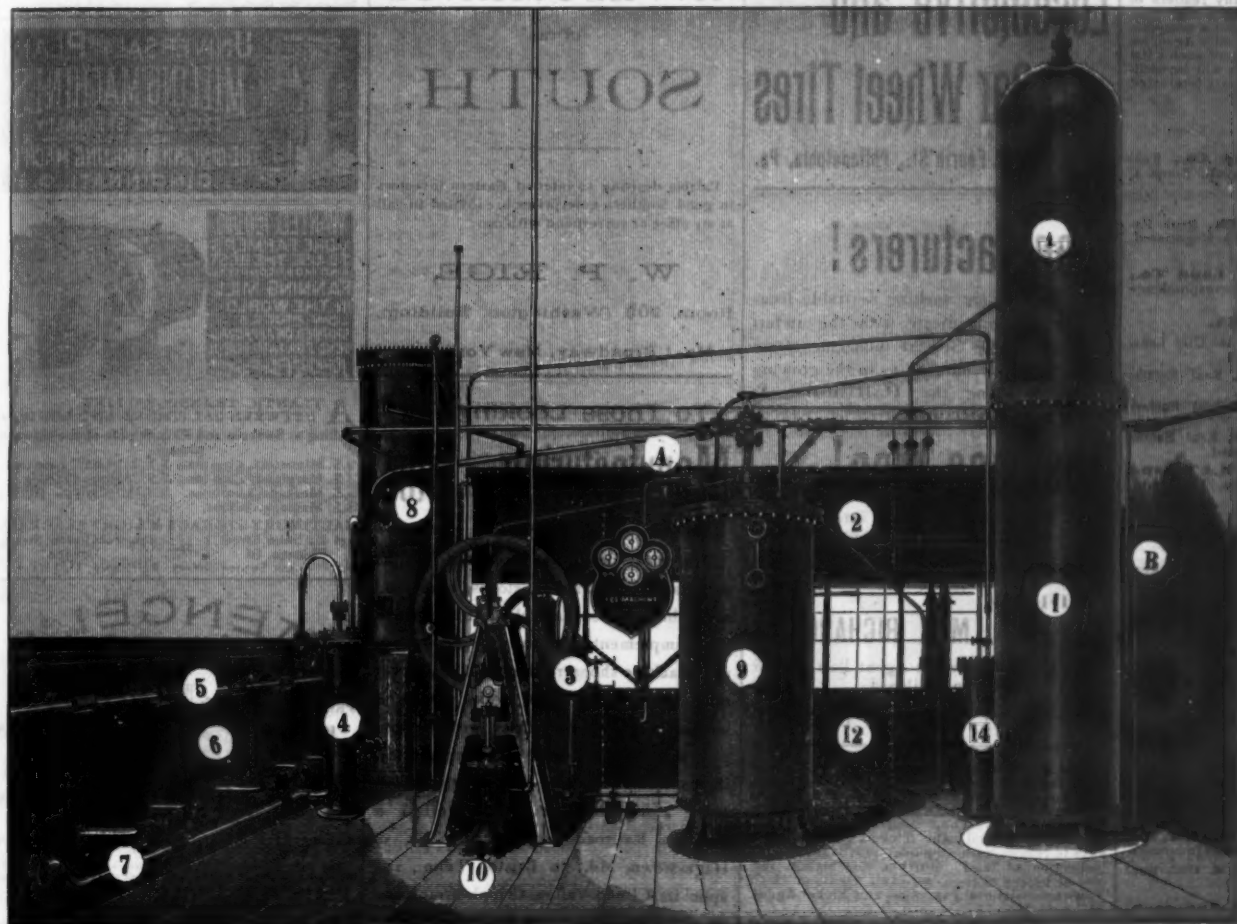
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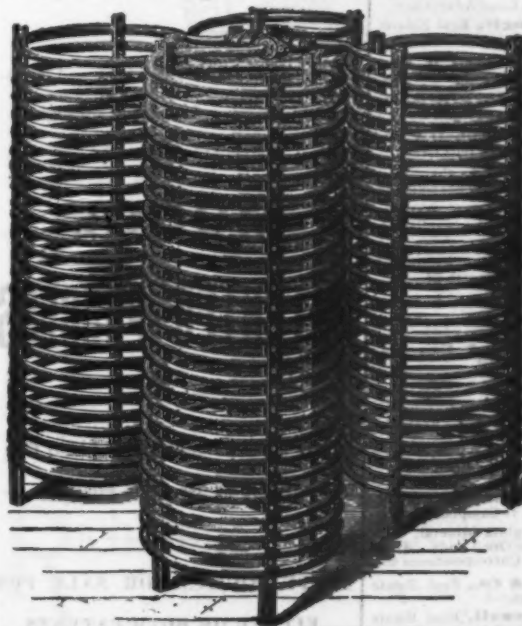


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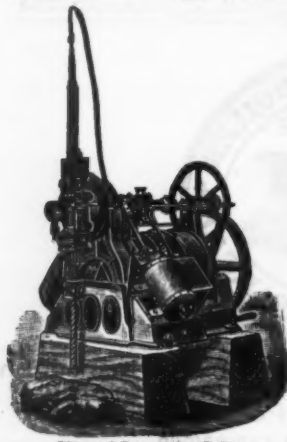
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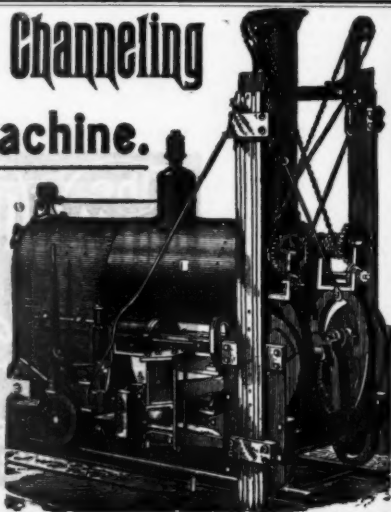
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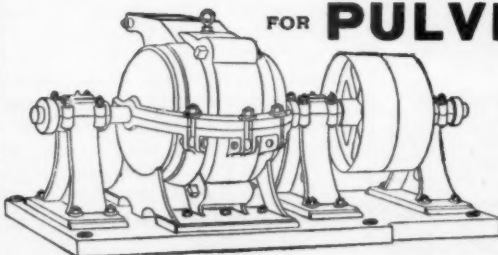
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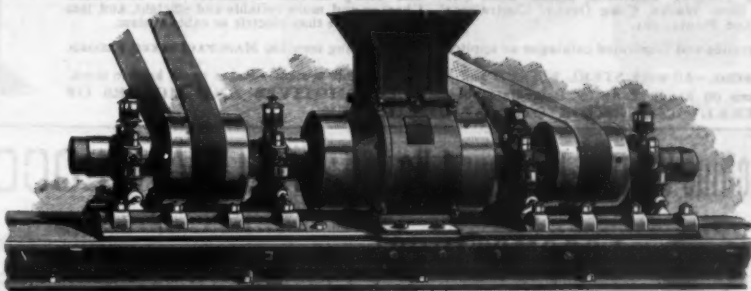
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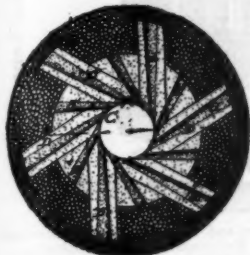
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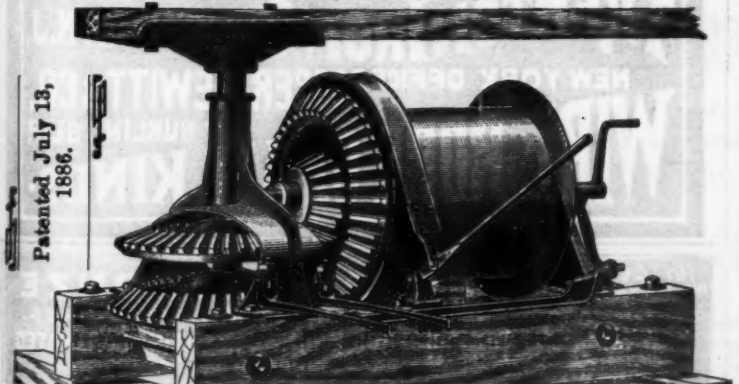
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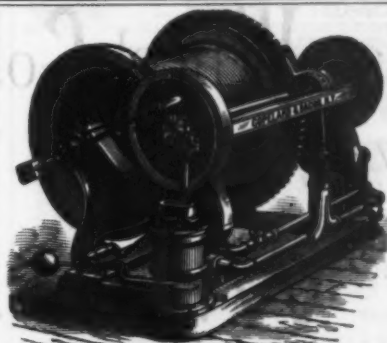
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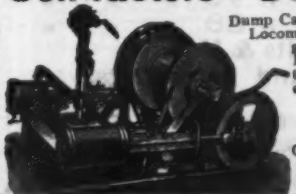
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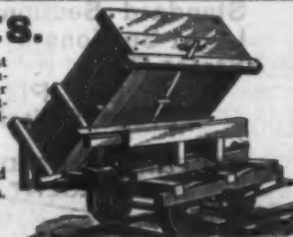
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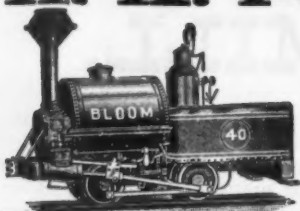


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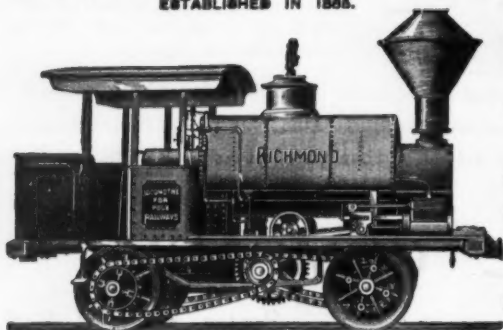
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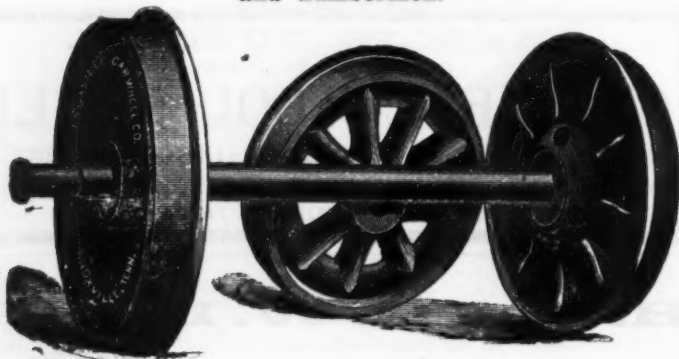
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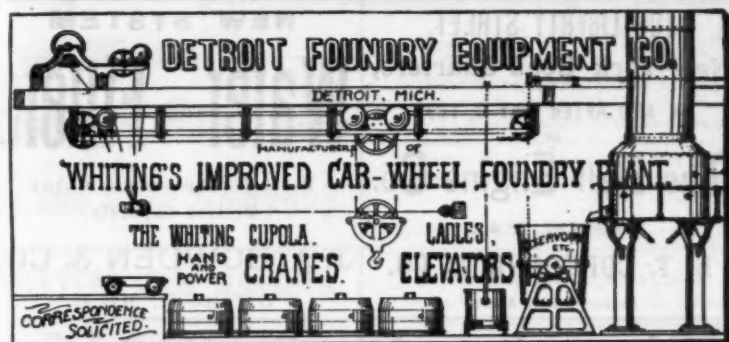
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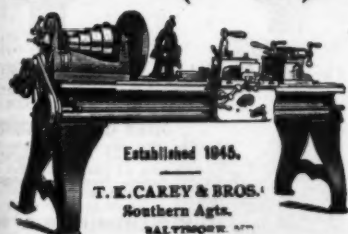
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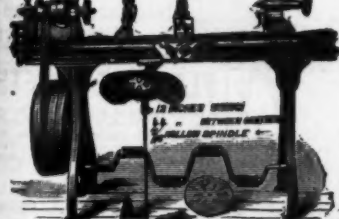
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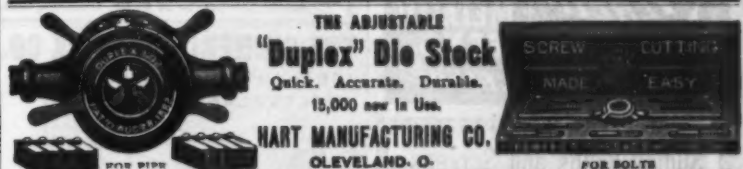
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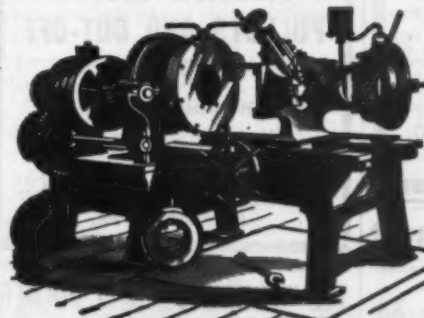
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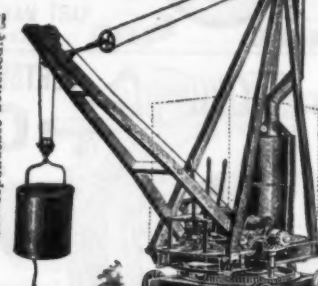
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Manufacturers of
Taper-Sleeve Wood
Belt Pulleys, Adjustable
Dead Pulleys,
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Couplings, Wood
Pulleys in Halves,
Taper-Sleeve and
Compression
Couplings, Shafting, Foot
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Correspondence so-
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Manufacturers of
STEAM ENGINES
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PROPRIETORS OF
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FOR FIRST-CLASS BOILERS,
Erie and Atlas Engines,
Tanks, Stacks, Tubes,
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COMPLETE MILL, ENGINE AND GIN OUTFITS
At Bottom Prices.
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WE MAKE
Tubular Boilers, Six-Inch Tube
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Boilers, Stacks, Tanks and Sheet Iron Works.
Steam Fittings of all kinds.
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Agents for Gilbert's Universal Wood Split Pulley.

BRYANT IMPROVED AUTOMATIC High-Speed Safety Engine.

Manufactured by
THE WHITMAN & BARNES MFG. CO.
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Automatic governor
non-explosive
boiler, no extra in-
surance, no engineer,
no sparks,
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Specially designed
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power from a 2 to 5
h.p. This is the
safest, cheapest
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power known. Fuel—kerosene oil or natural gas.




THE FRONTIER MANUFACTURING CO., find as a result of two years of
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PATENT LEVER FLUE CLEANER

is the best in the market. Why? Because the
ends are protected from breakage by the *bolts*;
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Water Filters

For All Purposes and of Any
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And All Kinds of WIRE WORK for Churches,
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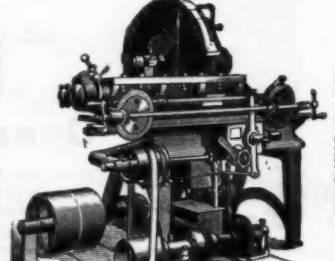
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KNIFE GRINDER.

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Powell's Pat. Signal Oilers FOR ENGINE OR DYNAMO USE.

The very best
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**THE CHAMBERLIN
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the world that successfully
pulls all classes and sizes of
stumps. Write for catalogue
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Manufacturers of
FLEXIBLE SHAFTS,
And all kinds of Machines to be used
with them. Portable Drilling, Tapping,
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Builders of
Special Machines
for Railroads,
Bridges & Boiler
Makers, Construc-
tors, &c.

Read What a Michigan Miller Says of the Case Company.

WESTERN IRON MARKETS.

CINCINNATI, August 29, 1891.

A better undertone is apparent in all the branches of the iron market, but nothing yet appears on the surface. Business drags even more than during the mid-summer period. Inquiries are slack, and new transactions are mostly small. Under ordinary conditions a situation like the present would develop a good deal of speculative spirit; that, however, is completely wanting. The more certain it appears that the very bottom has been reached, and that the future is full of promise, the more hesitating buyers become. It is believed that a short period of easy money markets, which are already upon us, will to some extent remove this extreme conservatism and start up at least a normal condition of activity.

In the buying that has been going on charcoal irons have shared quite freely. Some good orders have been placed for Southern brands and for Lake Superior charcoal iron, and further inquiries are on foot. In Southern coke irons prices continue to drag, but have already got so low that further decline seems impossible. There is no important change in productive capacity either South or North.

Money is decidedly easier in leading Western centers. Indeed, some banks have found it rather difficult to make satisfactory disposition of surplus funds. There is no change of rates on time loans, but call money is very cheap. There is no doubt that if the agitation for cheaper money were removed, confidence would quickly return to the financial world and all branches of industry feel the stimulus.

Railroads continue to hold off, and the iron trade has begun to learn to expect but little from that quarter. It seems likely that at some future day extra work will have to be done to equalize the long period of neglect of track and equipment. Probably the demand will come at a time when the iron trade is not looking for it. There is a much larger demand for iron pipe from municipalities than might be expected while bonds are so difficult to place.

We quote for cash f. o. b. Cincinnati:

Southern coke No. 1 foundry.....	\$14 75@15 25
Southern coke No. 2 foundry.....	\$14 75@15 25
No. 1 soft.....	13 75@14 00
Hanging Rock coke No. 1.....	16 50@17 50
Hanging Rock charcoal No. 1.....	20 00@22 00
Tennessee charcoal No. 1.....	16 50@17 50
Jackson Co. stone coal No. 1.....	16 50@17 00
Southern coke, gray forge.....	12 50@12 75
Southern coke, mottled.....	12 25@12 50
Standard Alabama C. W.....	19 50@20 50
Tennessee C. W.....	18 00@19 00
Lake Superior C. W.....	19 50@20 50

ST. LOUIS, August 29, 1891.

The market is devoid of any interesting features, and it is hardly to be hoped that active buying will begin until the financial condition of the country is more settled. The consumption of iron in this market continues light, and consumers are indifferent about providing for future wants.

The coke markets in the East have begun to complain of scarcity of cars, and it will be well for Western consumers to anticipate their wants for coke:

We quote for cash f. o. b. St. Louis:

Southern coke No. 1 Foundry.....	\$15 50@15 75
" " No. 2 ".....	14 50@14 75
" " No. 3 ".....	13 75@14 00
" " Gray Forge.....	13 25@13 50
" " Charcoal No. 1.....	17 25@17 75
" " No. 2.....	16 75@17 25
Missouri Charcoal No. 1.....	15 50@16 00
" " No. 2.....	15 00@15 50
Ohio Softeners.....	18 00@19 00
Lake Superior Car Wheel.....	19 50@20 00
Southern.....	19 50@20 00
Connellsville Foundry Coke.....	—@ 5 65

STURGIS ROLLER MILLS, BAUER & BUHRER, Proprietors.

STURGIS, MICH., July 12, 1890.

THE CASE MANUFACTURING CO., Columbus, Ohio.

GENTS—We started mill July 7th. The 12 pair 9x18 rolls you furnished us worked perfectly. They are so easy to adjust, so simple to handle, feed so regularly, grind so nicely and even and work so smoothly on the whole, that we have no hesitancy in stating that we cannot see how they can have a superior, if equal. Aside from their perfect work, they are models of beauty and finish, and a decided ornament to any mill. We enclose clippings from papers. We are, with best wishes, Very truly yours,
BAUER & BUHRER.

For full particulars regarding the BEST FLOUR OR CORN MILL MACHINERY, address

The Case Manufacturing Company, Columbus, Ohio.

tions which practice demonstrates to be necessary.

One of the most notable recent improvements of the Edison Co. is their combined dynamo and engine on a single bed plate, two views of which are herewith shown. The engine is of the "Ideal" pattern, with a 6x6 inch cylinder, designed to work with steam pressure of from 80 to 100 pounds.

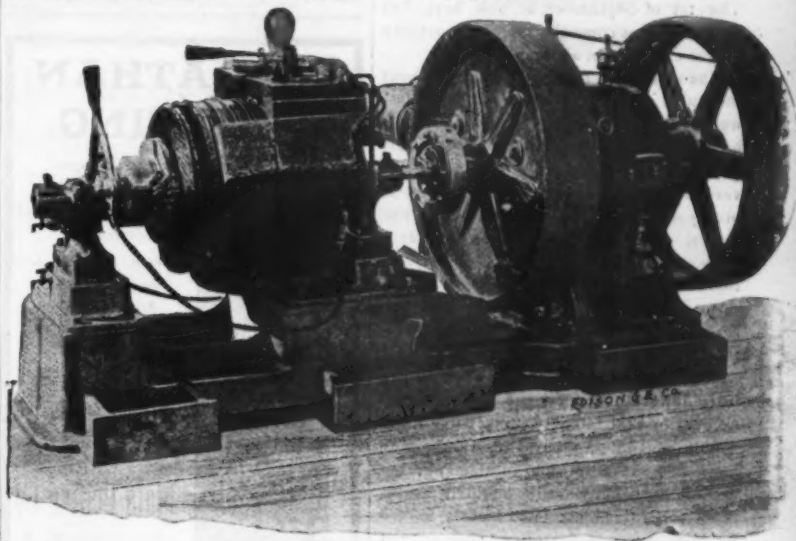


FIG. 2—NEW DYNAMO AND ENGINE.

This engine is coupled directly to an Edison marine dynamo, wound for 65 volts and 50 amperes, running at 500 revolutions per minute. The over-all dimensions are as follows: Height, 30 inches; length, 50 inches; width, 81 1/4 inches.

The dynamo has been so designed that it will give its rated output with an increase in temperature of only 20 degrees centigrade after four hours continuous run. Where, as before stated, the space is limited

In view of the present timeliness of the subject, the Century has arranged to print during the coming year an important series of articles on the general subject of agriculture and the government's relation to the farmer. Among the topics to be treated are: "Agricultural Possibilities of the United States," "The Farmer's Discontent," "What the Government is Doing for the Farmer," "Co-operation," etc. Mr. J. R. Dodge, statistician of the

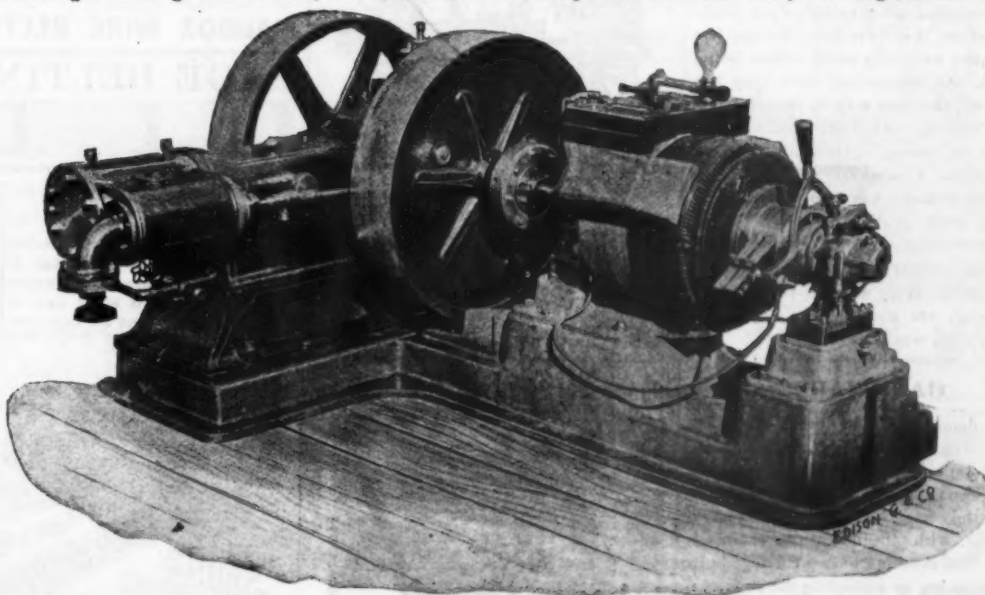


FIG. 1.—NEW DYNAMO AND ENGINE.

used on a moderately large scale at a much less price than gas, the field of electric lighting in isolated plants has reached enormous dimensions. Among the foremost in the ranks of promoters in this particular branch of electric industry is the Edison General Electric Co., whose electricians and engineers are continually at work to simplify their apparatus and adapt it to the condi-

ed and temperature of the dynamo room is high, as it usually is in buildings, such a combination is destined to meet with a large demand.

If you are not already a subscriber to the MANUFACTURERS' RECORD, send us \$4 and you will receive it regularly for one year or six months for \$2.00.

agricultural department, Mr. A. W. Harris, of the same department, Professor Brewer, of Yale, and others are among the writers.

In one week from August 24th to August 29th inclusive, there were shipped from Mineral City, Va., 10,628,885 pounds, or 4,745 tons of pyrites ore, making an average of over 790 tons daily. The freight on these shipments amounted to over \$4,000.

The Markets.

OFFICE MANUFACTURERS' RECORD,
BALTIMORE, August 31, 1891.

General business throughout the country at this time is improving slowly but surely in all directions, and it is thought a month more will note a very decided change for the better in all branches of trade. The financial condition of the country is still unsettled, and this is the great drawback to all business; when better things can be expected in this line it is not well to anticipate, as so much has already been said on this subject. In the iron trade things are moving along as was expected, not any great activity showing itself, but a slight improvement taking place all around. The 1st of September is now here, but with it has not come that degree of activity as was expected in all branches.

The sale of pig iron is going on in about the same manner as was reported last week. Some quantity of small orders have been received, but no large orders have as yet been placed. The feeling is very hopeful, however, although there is plenty of low grade iron to be had at low prices. For steel billets there is only a moderate demand for small sized lots, and there does not seem to be agreement in regard to prices; there is some anxiety to sell, and on this account concessions, it is thought, could be easily obtained.

Muck bars are also being offered a little lower than for some time past on account of the anxiety to sell and the small demand. In bar iron there is an improvement noticeable in demand, but the market is not what it should be at this time. New business is anxiously looked for. A slight increase in demand has taken place in the skelp iron market, a few small lots being taken during the past week. Mills on plates are pretty well filled with orders for the next few weeks, and there is a moderate activity only. Prices are low, and not much show for an improvement. No large orders for structural material have been placed during the past week, but mills are pretty fairly busy finishing up old business. Some sheet iron is selling at this time, and wrought iron pipe is also moving along at a little better rate than last quoted. Nothing new to note in the steel rail situation as yet, prices remain where they have been for the last two months, and only small orders being received. As regards old rails very few are selling; the same may be said of scrap. From Pittsburg and Louisville we hear signs of increasing activity in the iron trade. From Cincinnati and St. Louis very little business has been done during the past week in this branch of trade, while from Chicago we hear reports of an increasing activity, and better volume of trade than for many weeks. In Philadelphia things are about where they have been for some weeks past.

HARDWARE.

The demand for hardware continues fair. Orders are small and for immediate wants. Jobbers are not buying freely, and are disposed to carry small stock, particularly in the cotton section. Prices remain as before, with no indications of an advance. The combination on carriage bolts is not as strong as desired by the conservative manufacturers, and we hear frequent rumors of cutting in prices, notwithstanding the agreement at the August meeting to hold firm to the established discount.



READY TO APPLY FINISHED JOINT

The screw market is not firm, as low prices have been made by outside manufacturers, which is causing uneasiness in the trade.

THE general offices of the Piedmont Air Line Co. were removed last week from Washington to Atlanta. Hereafter the company will be represented in Washington by Mr. L. S. Brown, who has been appointed general agent of the passenger department of the third division of this important system. Mr. Brown will have supervision of the passenger traffic in District of Columbia, Maryland, Pennsylvania and New York.

NASHVILLE RAPID TANNING AND BELT MANUFACTURING CO.
Manufacturers of Oak Tanned and Rawhide Leather Belting, Lace Leather, Picker Leather, Ropes, Lariats and other Rawhide Leather Goods.
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LEVIATHAN BELTING.



Is the Strongest,
Runs the Most
Evenly and Best
Adapted for
Cotton, Woolen, Saw
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Mills
Brick and Tile
Works and
HEAVY
DRIVING
Generally.

Main Belting Co.

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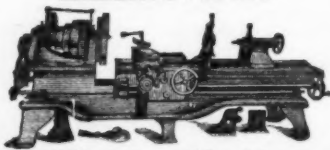
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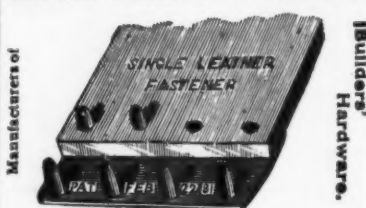
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Extension and Gap Lathes, Planers with Quick Returns, Drills, &c., Hand Power Elevators with Patent Brakes, Double Chain Screw Hoists, Overhead Tramway with Switch, Turntable and Geared Truck.
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Bristol's Patent Steel Belt Lacing.

Saves Time, Saves Money, Saves Belting.
MOST PERFECT FASTENING for all kinds of Belting. SAMPLES FREE.

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WATERBURY, CONN.

GRAPHITE PAINT.

FOR TIN OR SHINGLE ROOFS AND IRON WORK
IT IS ABSOLUTELY WITHOUT AN EQUAL.

A tin roof well painted will not need repainting for 10 to 25 years. If you need any paint it will pay you to send for circular. **JOSEPH DIXON CRUCIBLE CO., Jersey City, N. J.**



The "Original Candy"
Sewed Cotton Duck Belting.
Especially adapted for Main Drivers, Saw Mills, Cotton Gins, Cotton Presses, and for all places where belts are subjected to moisture or atmospheric changes, the "CANDY" stands paramount.
For further information, prices, etc., write
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THE BEST & CHEAPEST

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MADDOX COTTON and WIRE BELT

The Maddox Belts are especially adapted for Dye-houses, Bleacheries, Tanneries, Pulp, Paper, Cotton and Woolen Mills, and all other places for the transmission of power where heat, moisture, etc., cause serious trouble. It runs true and almost noiseless, adapting itself from its flexibility to all positions, closely hugging the pulleys through all changes of weather and other causes. Write for prices to

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PAGE BELTING COMPANY,



SECTION OF COTTON WIRE-SEWED LIGHT DOUBLE BELTING.
We Manufacture all the staple and of Leather Belting, including Also the "MERCULES" Lacing

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IT BELTS THE EARTH AND MAKES THE MOON SPIN LIKE A TOP

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ALL LEATHER, NO IRON ROD OR HINGE, OLD STYLE LEATHER LINK AND IRON ROD BELT, AND ROPE TRANSMISSION SUPERSEDED

OUR BELTING IS TANNED ON THE SURFACES ONLY. INTERIOR IS RAWHIDE. THE ONLY PERFECT BELT MADE, NO SLIPPING OR LOST MOTION.

SAVE YOUR POWER, YOUR BELTS, YOUR MONEY.

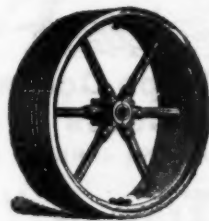
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Conveying, Elevating and Power Transmission Machinery

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Wood Split Pulleys,
With Iron Hubs
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Will Not Slip on
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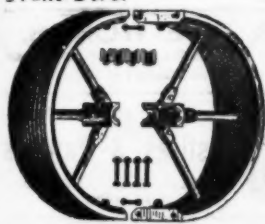
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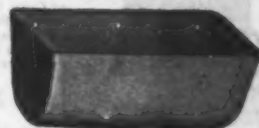
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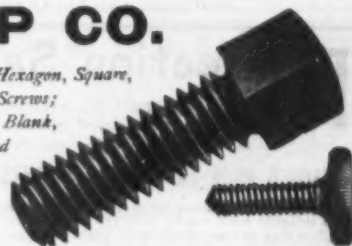
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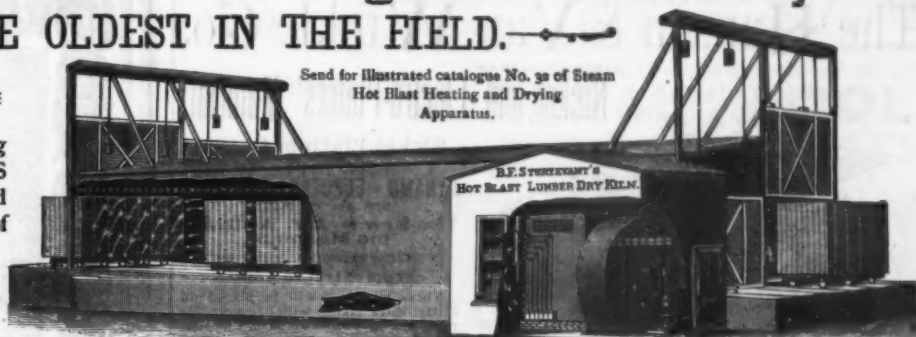
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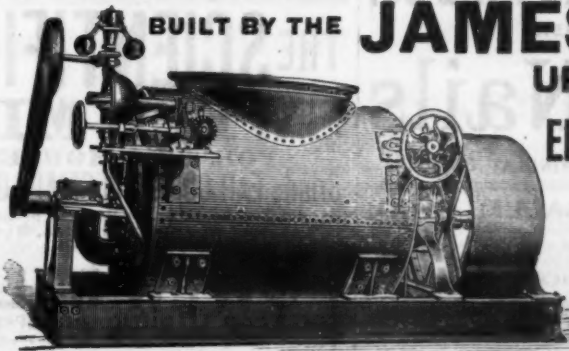
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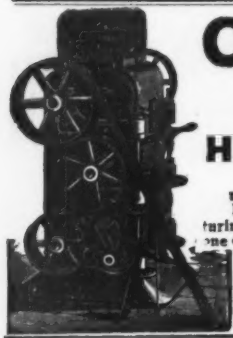
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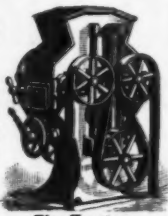


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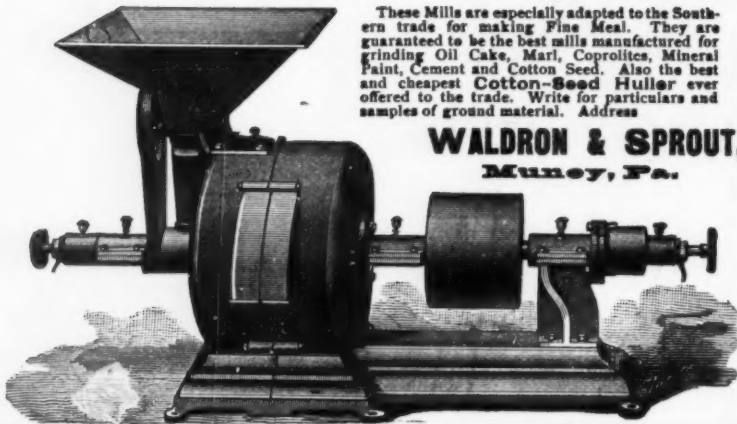
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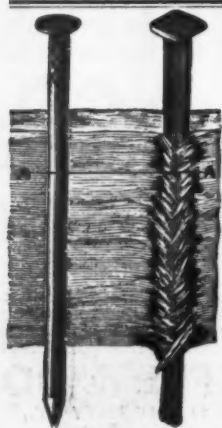
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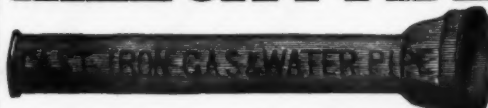
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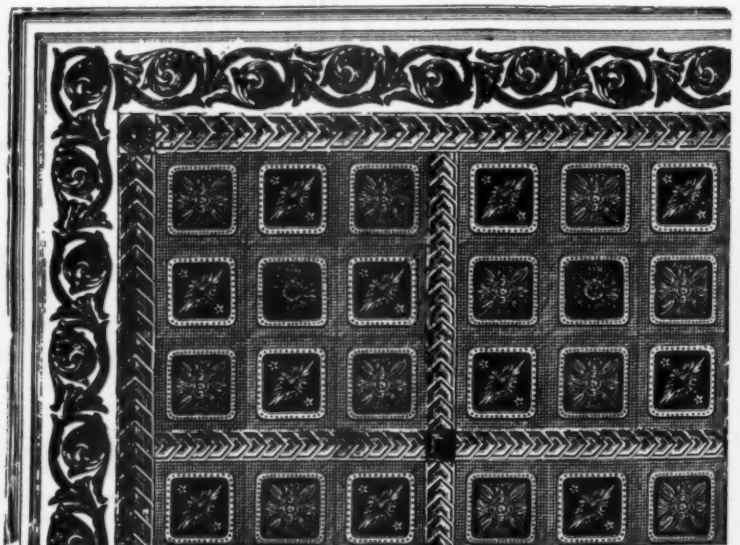
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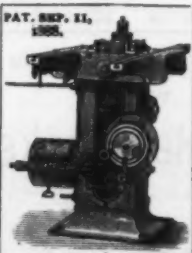
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SEND FOR CATALOGUE SAMPLES & PRICE LIST.

Eastern Lumber Markets.

[Special Cor. MANUFACTURERS' RECORD.]

NEW YORK, September 1, 1891.

The outlook for the future in all trades is good, but when this improvement is to set in firmly and surely we cannot as yet tell. This state of affairs keeps business in all directions back, although some improvement is noticeable over that reported last week. In the iron trade prospects are brighter, and demand has increased somewhat within the past two weeks, which is a good sign for all of us.

There has been quite a great deal of white pine arriving of late, and the accumulation here is larger than a week ago. This is in both coarse and medium stuff which was contracted for last fall. There are some sales being made, but no very large ones to be noted at this time. Buyers know what they want, and will not take it unless they can obtain it at what they think should be the price.

As regards yellow pine there is very little to say. A little business is being done in this wood, but there is only a moderate demand, and at very low prices; buyers are only taking what is wanted for immediate requirements.

Carolina pine seems to be moving along a little more freely at this time. Agents are pushing this lumber just now vigorously, and with quite good success in some new territory.

Hemlock is not being called for as we might expect, and we hear some complaints of the local demand. Some have sanguine expectations of better things in this lumber very soon, and it is to be hoped that they will be realized. There is not very much spruce coming just at this time, and receivers seem to take what little is coming very unwillingly. A few special orders, however, have been received, and that lately arrived has been disposed of with few shadings, if any, in price. Hardwoods are very dull, and devoid of interest at present. Quartered oak seems to be held in highest demand, and still keeps its price as well, if not better, than any other lumber at this time. The outlook for plain oak is that of scarcity, and it will be therefore held firm at full prices. Good poplar is also selling along in a quiet way. Ash and maple are both moderately quiet just now. Walnut is still holding its own very well, and it is thought will continue to improve in demand as the season advances. It is hoped that before many weeks we may be able to note a much better state of affairs than at present.

Do you want some second-hand cotton machinery? It is in good running order. See advertisement of Davol Mills, Fall River, Mass., on page 50, and write them for prices, terms, &c.

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5 miles Electric Street Railroad. 112 Factories. Population 1882, 4,194. Population 1890, 16,471. Tobacco Center. Railroad Center. Paved Streets. The Future Metropolis of the South.

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Buy for cash on cars at Mills and sell delivered to all points reached by rail or water. Write Baltimore Office.

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Georgia Pine Timber,
RIFT FLOORING.

Delivered at any Point. Prices Quoted.
AUGUSTA, GA.

THE EDWIN BELL & SONS CO.

MANUFACTURERS OF

Nail Kops, Flour and Fruit Barrel
Stock, also HOOP MACHINERY.
Write for prices on Hoops, Heading and Staves.
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Catalogue of Spring Hinges, Door Springs,
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For RIVET HEATING and General
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The only Portable Forge with a bellows that gives an absolutely continuous blast and is easily worked. No legs to break, no gear wheels belts or bearings to get out of order. Always ready for use. No break-downs to cause delay when used out of shop. Requires no oiling.

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Manufacturers of PORTABLE FORGES, IRON
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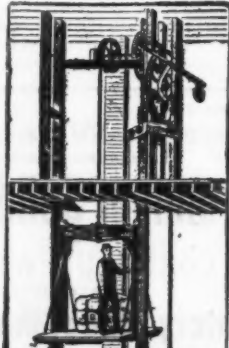
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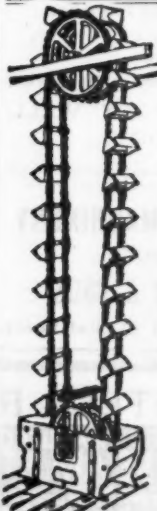


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SCREW JACKS,

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50 varieties of Lever and Screw
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We manufacture all sizes
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WEATHERPROOF, WATERPROOF AND FIREPROOF.

Subject: "Richmond Iron Cement."

CHESAPEAKE & OHIO RAILWAY CO.

OFFICE OF ENGINEER M. OF WAY.

F. I. CABELL, Engineer Maintenance of Way,
Peninsular, Richmond & James River Divisions
RICHMOND, VA., Nov. 13, 1890.

N. T. PATE & CO.,

No. 1007 EAST CARRY STREET,

RICHMOND, VA.

GENTLEMEN—Replying to your letter of the 13th
Inst. We have been using your "Richmond Iron
Cement" to repair leaks in our merchandise Piers
at Newport News, and the result has been very
satisfactory; there has been no complaint of
leaks where it has been used.

Yours truly,

F. I. CABELL,

Eng. M. of Way.

N. T. PATE & CO., 1007 E. Cary St., Richmond, Va.

Gen. Agency "Vulcan Fire-Proof and Solter's" Paints.



ARE the STANDARD PAINTS for STRUCTURAL
PURPOSES, and are composed of pure
linseed oil and the highest grade of pig-
ments. They are prepared ready for use,
in newest shades and standard colors, and,
on account of their purity and great cover-
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and ECONOMICAL Paints ever produced.
One gallon will cover from 250 to 275
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Samples and Descriptive Price List free by mail.

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SOLE MANUFACTURERS OF

H. W. Johns' Asbestos Roofing,
Fire-Proof Paints, Building Felt,
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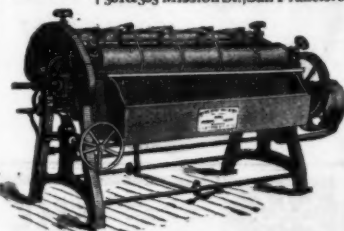
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Troy Laundry Machinery Co.

(LIMITED.)

FACTORIES: 648 and 650 Fulton Street, Troy.
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SALESROOMS: 15 Warren Street, New York.
58 & 59 Mission St., San Francisco.



Our Line of LAUNDRY MACHINERY has
all the LATEST IMPROVEMENTS and is the
BEST FOR LAUNDRING all kinds of goods.

Send for Catalogue K.

Will Covington, Va., Be a Big Town.

[Special Cor. MANUFACTURERS' RECORD.]

COVINGTON, VA., August 29, 1891.

In refreshing contrast with certain speculative town schemes, which either by reason of bad management, lack of money, or dishonesty, have not been able to live through the financial famine, is this solid town of Covington of whose Improvement Co. the sagacious Decatur Axtell is president, and the irrepressible B. Frank Eakle, Jr., general manager. Not that this Covington company has not felt more or less the strain of the late financial "shaking up," for was there ever oak which bent not in the tornado, or ship whose timbers creaked not in the storm? But as only the strongest specimens still stand after all the rotten, hollow trees are laid low, and as the staunchest craft alone may weather fierce hurricanes at sea, so through the recent ordeal this company has come unscathed.

This company did not predicate its improvements on moneys that it hoped to get, nor did it rely upon the proceeds of lot sales. Its capital stock was only \$300,000, of which it invested \$85,000 in land, nearly \$70,000 in a fine hotel (now full of guests) and the balance in the stock of a furnace company, a brick plant, a foundry and machine shop, and a rolling mill. It is true some lots have been sold, about \$100,000 worth, but paid-up stock was mostly taken for these, leaving only some \$200,000 worth now outstanding. This represents substantial convertible assets, which, in view of the completion of the Warm Springs Branch of the Chesapeake & Ohio Railway and certainty of the extension hither of the Camden system, (the West Virginia & Pittsburg Railroad,) and its continuation hence up through the vast and reliable iron ore deposits on Potts creek, might be turned into money, hard as the times are said to be, on thirty day's notice for a sum largely in excess of the par value of the stock at present left outstanding.

The furnace at Covington is being pushed to completion as rapidly as the workmen can handle the material; the brick plant is turning out 125,000 first-class brick a week; for the foundry and machine shop the machinery has all been purchased, and the brick work and masonry nearly completed, while the rolling mills, for which about half the machinery has been bought and paid for, will be finished so soon as the furnace goes into blast. Moreover, a new roller flour mill, with a capacity of 50 barrels a day, will be running by water-power by the second week in September.

The Warm Springs Railroad is almost ready for regular passenger trains, which will be put on September 3. This was one of the most economically built roads ever constructed, and yet I am told by civil engineers it is as well built as any in the country. The local traffic alone will probably make it a paying investment until it meets the Camden Road and becomes part and parcel of a great north and south trunk line between the great iron city of Pennsylvania and the richest iron ore region in Virginia. It ought to have been called the Pittsburg & Rich Patch Railroad.

I have spent the better part of a whole day looking at the industries in course of construction here, and might write a page about the furnace alone. It is constructed of the best material, and with the most improved appliances. It will be a twin furnace, with two stacks, which will be capable of turning out 125 tons each daily. That is to say, the blowing engines, stoves, &c., are being built for a twin furnace, but at present only one stack is being pushed to completion. There is a limestone quarry, which will furnish the flux, within a hundred yards of the furnace, and the limestone will be moved to the "lift" by

gravitation. The foundry and machine shop will be the best equipped in this part of Virginia, and will do a great deal of work for the railroads centering here.

The high esteem in which Covington's future is held by practical men has been demonstrated during the last two weeks, within which \$50,000 of the company's stock has been sold at par. When it is remembered that during the last few months few land company stocks have been marketable at any price, such activity has great significance, and all the more so in view of the fact that Frank Lyman, Esq., of 180 Remsen street, Brooklyn, N. Y., who has more practical knowledge of the mineral resources of this section than any other man in New York, was the purchaser of \$35,000 worth of the stock referred to. It is he who is mining iron ore at "The Stock," "Dolly Ann" and "Iron Mountain" mines, the joint daily output of which is now 350 tons, all within six miles of Covington. Mr. Wm. M. McAllister of Warm Springs, was speaking in my hearing of a certain property he had sold. I asked him if he got the money for it. "I got," he replied, "something that I consider better than so much money; I got Covington improvement stock."

The Chesapeake & Ohio Railway Co. is building here a very handsome passenger station to cost \$5,000, upon the completion of which the building now used for that purpose will be devoted exclusively to freight. A number of new dwellings are going up all over the company's property, about a dozen of which are being built by the Baltimore Building & Banking Co. The bank here—the Covington National—which was just about to be started when I wrote last from this place, is now carrying \$140,000 in deposits.

Just now, however, the pride and glory of Covington, and, indeed, of all the Alleghany mountain country, is the New Intermont hotel, which is without doubt the finest and most elegantly appointed hotel between Cincinnati and the sea. The furniture, carpets, silver, china—everything is exquisite.

The fare is good. There are bath-rooms in abundance. It is lit with gas. The laundry (filled with latest machinery) does such fine work that it is patronized largely even by the people of Staunton. The view from the balconies of the Intermont is unequalled by that obtainable at any first-class hostelry in the South. The heating apparatus is so perfect that the Intermont will be as popular in winter as in summer.

Taken altogether the situation at Covington is one for great encouragement and congratulation. It shows that merit is recognized at all times—even in "hard times." It shows that the real development of Virginia may steadily go forward at such places as nature intended that it should go forward, in spite of the a' riving up of certain "booms."

And so there is every reason to predict that Covington will in a few years become a very important commercial and industrial center.

THOMAS P. GRASTY.

New Woodworking Enterprises Improved Financial Outlook

[Special Cor. MANUFACTURERS' RECORD.]

LENOIR, TENN., August 27 1891.

A company titled the Lenoir City Lumber & Manufacturing Co. has located here. The officers and directors are: President, W. H. Young, of Kenton, Ohio; vice-president, Wm. Edmiston, Springfield, Ohio; secretary and treasurer, W. W. Avery, of Ashville, N. C.; directors, E. J. Sanford, Knoxville, Tenn.; A. W. Butt and J. E. Heffelfinger, Springfield, Ohio; E. T. Sanford, Knoxville, Tenn. The saw mill they move here from Bushnell, N. C., and the furniture factory comes from Ashville, N. C. They have

their saw mill completed and in operation. The mill building is 150x65. Band saw capacity 50,000 feet daily. They work 30 men in the mill. The company has thousands of acres of timber land in the mountains of North Carolina along the Little Tennessee river, the mouth of which is directly opposite their plant on the Tennessee river. They have two large booms up the Little Tennessee two miles distant from this city. They have the contracts drawn for their furniture plant, which they move here from Ashville and known as the Ashville Furniture Co. Their buildings will be of brick and the following dimensions: Main building, 200x60, two stories high; store-room, 100x60; finishing-room, 200x60. They will have two large dry kilns of modern make. They will employ 200 men; will make a general line of furniture besides doing a general lumbering business, making shipments of poplar and other lumber to all markets. It is a strong concern, capitalized at \$200,000. This point with its many timber advantages is fast becoming a center for woodworking industries. Jno. T. Bon & Sons, Syracuse, N. Y., have a furniture plant here in operation making extension tables. They use mostly oak, and are doing a nice business. We are located on the main line of the East Tennessee, Virginia & Georgia Railroad, and the promoters and founders of the city are largely interested in the railroad, and have guaranteed freight rates equal to Chattanooga or Knoxville. They mean to build here a manufacturing city. After the financial troubles of the past six months things are picking up in this section of Tennessee. Crops were never better. The great marble resources here are being utilized to a wonderful extent, and it is surprising the amount of money it brings to this vicinity. Tennessee coal is in strong demand, and the mines are all in full operation. The iron ore output is greatly on the increase. The bankers say money is already easier and look for a general revival in all branches of trade. Real estate is looking up, and farm lands are again in demand after so long a season of depression. J. W. GRISSELL.

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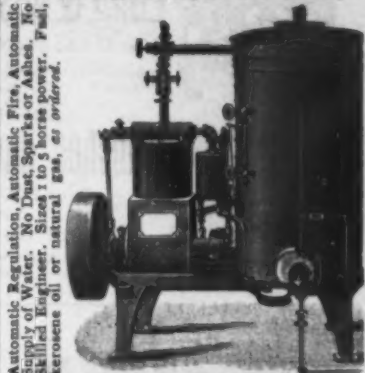
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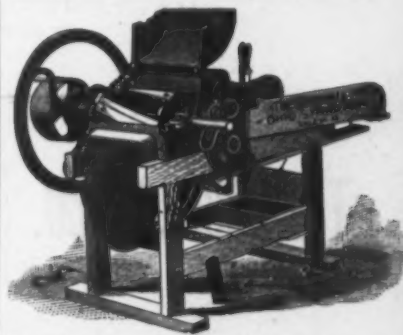


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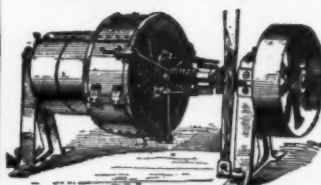
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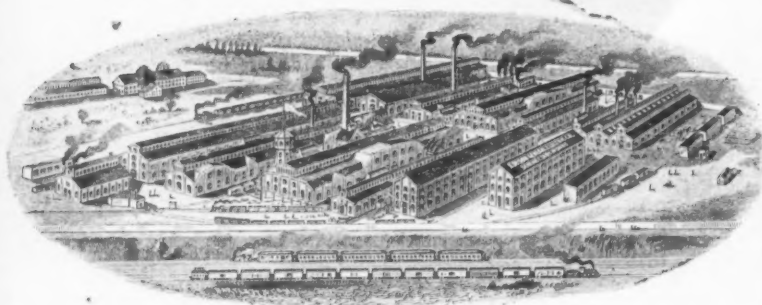
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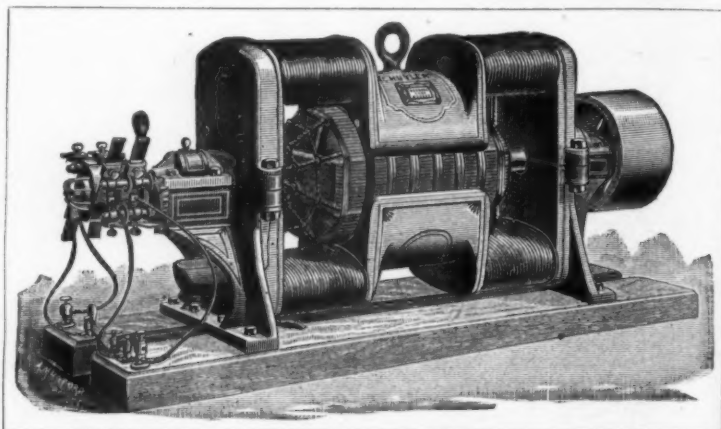
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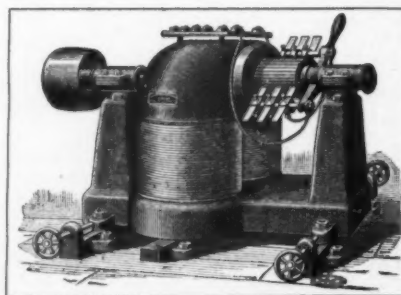
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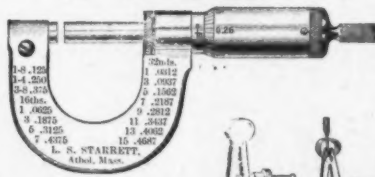
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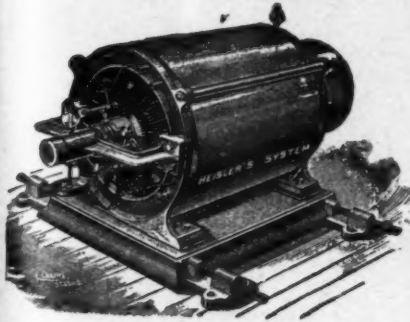
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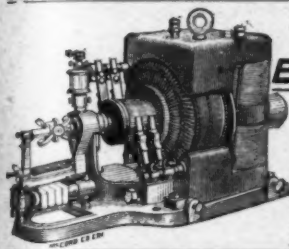
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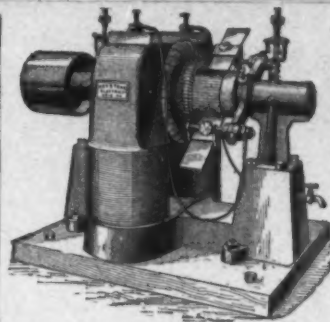
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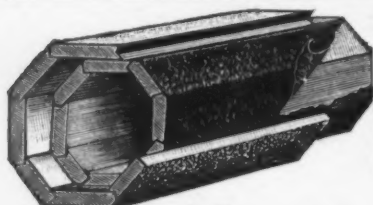
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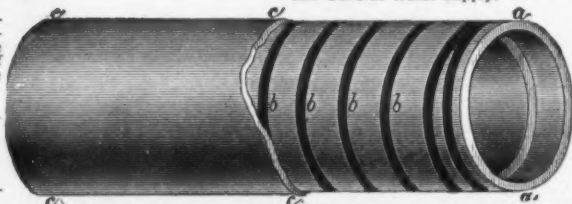
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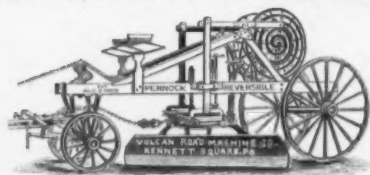
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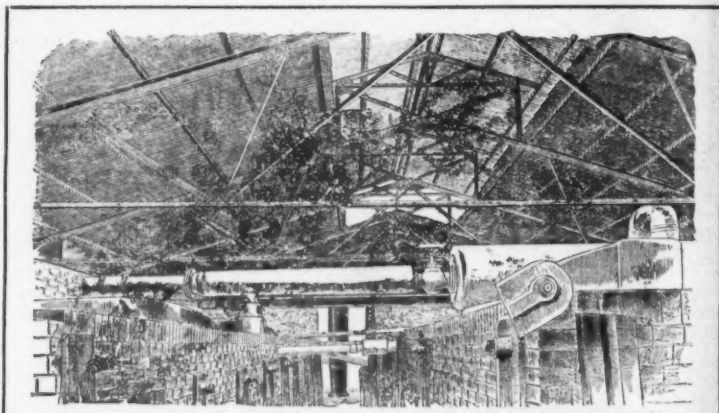
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